

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091819\
 Data File : VX012496.D
 Acq On : 19 Sep 2019 00:44
 Operator : JC/SP
 Sample : K4887-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB-2019-1

Quant Time: Sep 19 06:07:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 17 15:27:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	196203	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	302146	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	263245	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	108594	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	127211	45.24	ug/l	0.00
Spiked Amount			Recovery	=	90.48%	
35) Dibromofluoromethane	5.49	113	92526	50.59	ug/l	0.00
Spiked Amount			Recovery	=	101.18%	
50) Toluene-d8	8.71	98	352210	52.03	ug/l	0.00
Spiked Amount			Recovery	=	104.06%	
62) 4-Bromofluorobenzene	11.14	95	127464	45.35	ug/l	0.00
Spiked Amount			Recovery	=	90.70%	

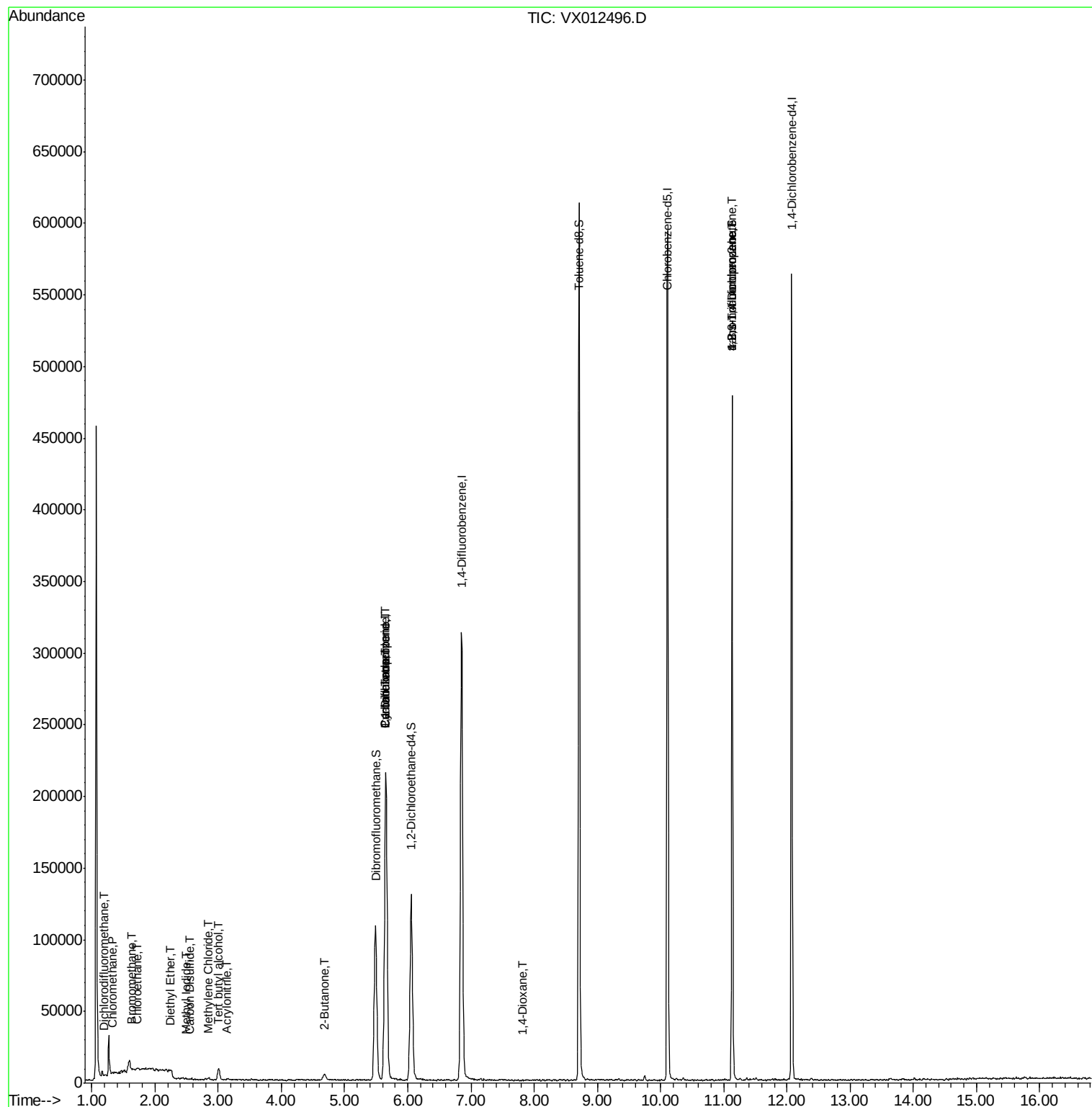
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	183	0.530	ug/l #	43
3) Chloromethane	1.32	50	436	0.404	ug/l #	43
5) Bromomethane	1.63	94	257	0.561	ug/l #	50
6) Chloroethane	1.71	64	450	0.493	ug/l #	58
8) Diethyl Ether	2.24	74	216	0.224	ug/l	52
10) Methyl Iodide	2.50	142	643	4.884	ug/l #	70
11) Tert butyl alcohol	3.00	59	4792	0.868	ug/l #	82
13) Acrolein	2.31	56	54	Below Cal	#	1
15) Acrylonitrile	3.14	53	441	0.362	ug/l #	30
16) Acetone	2.44	43	871	Below Cal	#	67
17) Carbon Disulfide	2.55	76	428	2.043	ug/l #	75
20) Methylene Chloride	2.84	84	505	0.297	ug/l #	63
25) 2-Butanone	4.69	43	500	0.256	ug/l #	51
31) Cyclohexane	5.65	56	4841	2.493	ug/l #	9
36) 1,1-Dichloropropene	5.65	75	16693	9.091	ug/l #	48
38) Carbon Tetrachloride	5.65	117	21416	9.377	ug/l #	16
49) 1,4-Dioxane	7.81	88	27	0.465	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	66788	26.774	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	66788	72.050	ug/l #	8

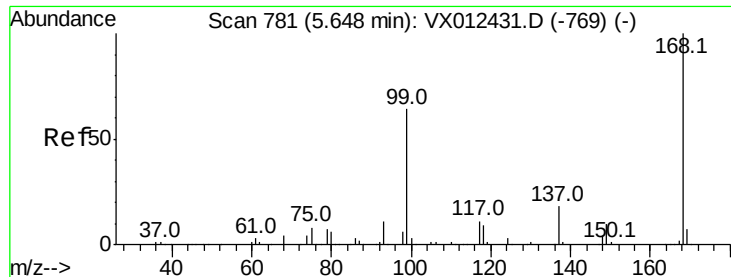
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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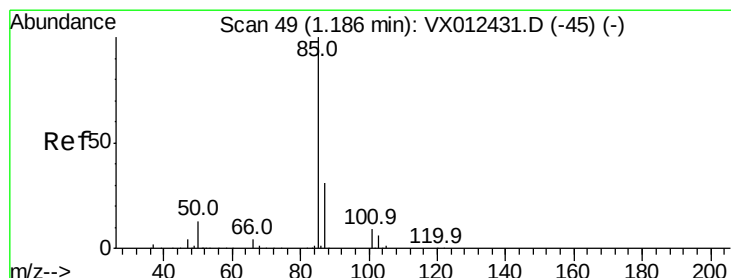
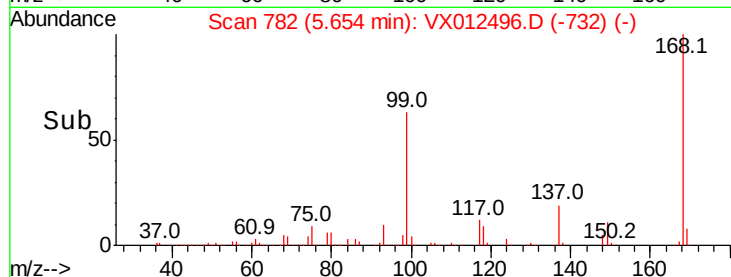
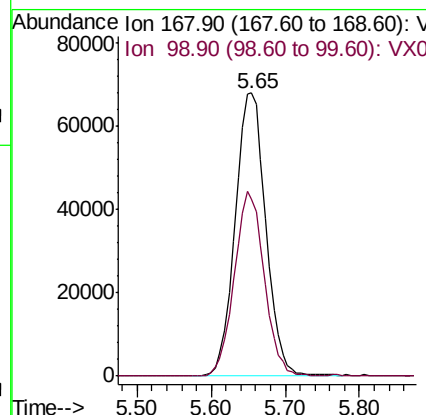
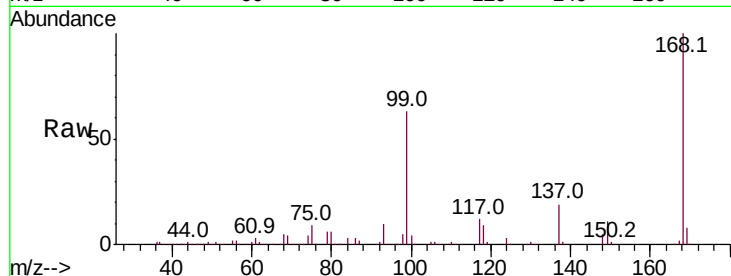




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.01 min
Lab File: VX012496.D
Acq: 19 Sep 2019 00:44

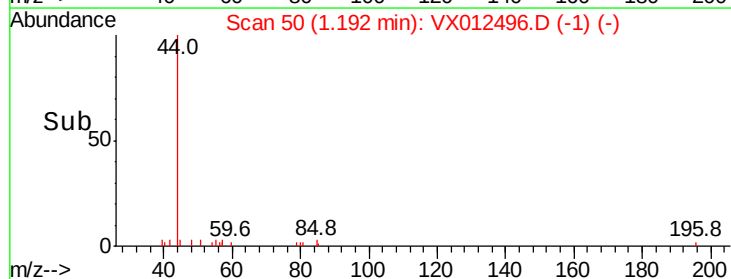
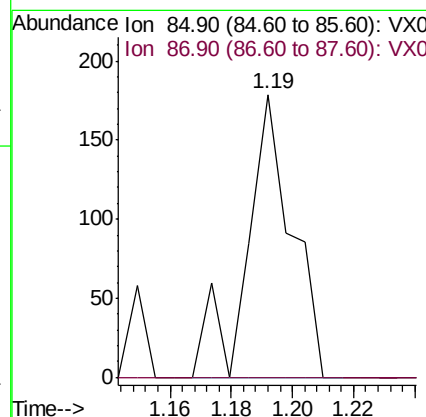
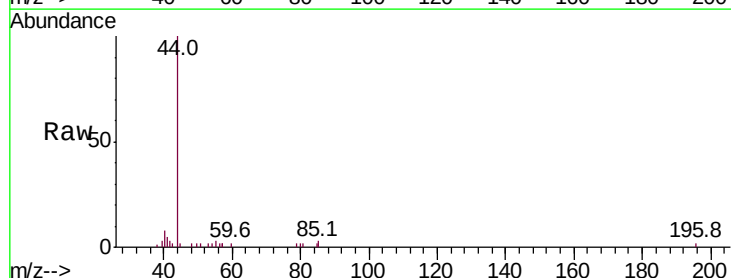
Instrument :
MSVOA_X
ClientSampleId :
Z3-TB-2019-1

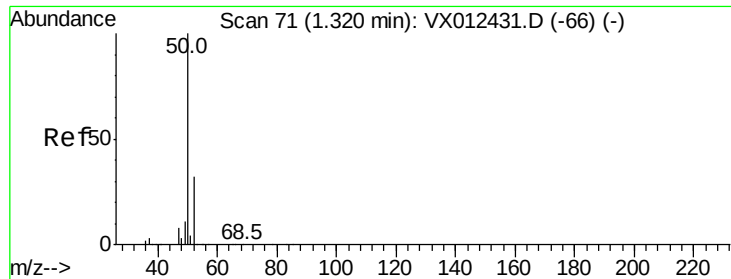
Tot Ion:168 Resp: 196203
Ion Ratio Lower Upper
168 100
99 62.6 51.4 77.2



#2
Dichlorodifluoromethane
Concen: 0.530 ug/l
RT: 1.19 min Scan# 50
Delta R.T. 0.01 min
Lab File: VX012496.D
Acq: 19 Sep 2019 00:44

Tgt Ion: 85 Resp: 183
Ion Ratio Lower Upper
85 100
87 0.0 15.6 46.8#





#3

Chloromethane

Concen: 0.404 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX012496.D

Acq: 19 Sep 2019 00:44

Instrument :

MSVOA_X

ClientSampled :

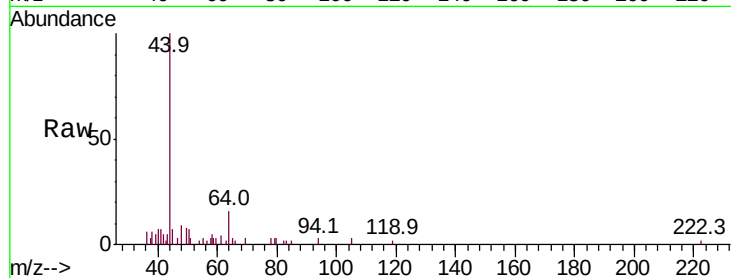
Z3-TB-2019-1

Tot Ion: 50 Resp: 436

Ion Ratio Lower Upper

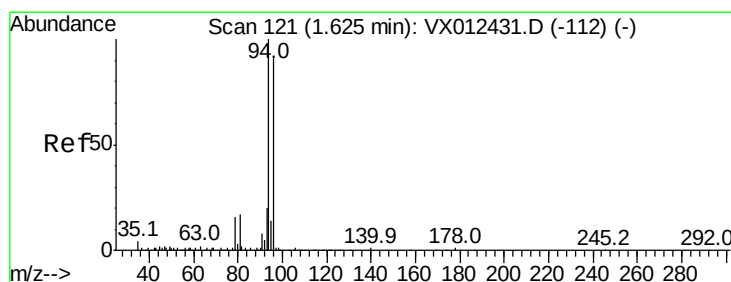
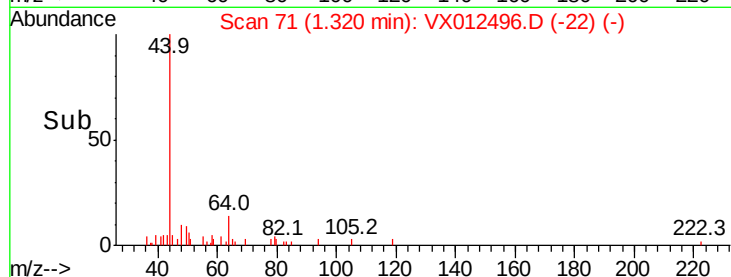
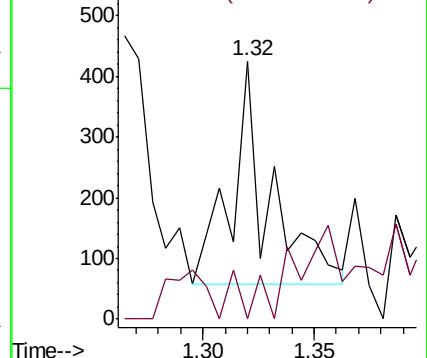
50 100

52 0.0 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 0.561 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX012496.D

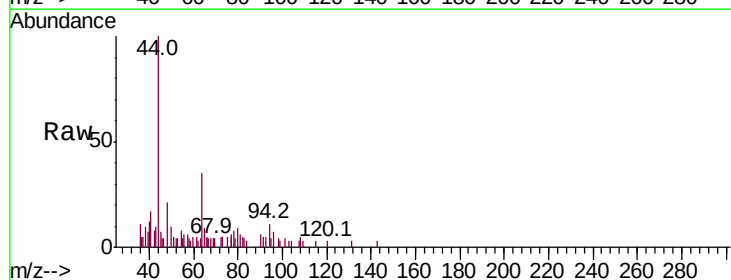
Acq: 19 Sep 2019 00:44

Tgt Ion: 94 Resp: 257

Ion Ratio Lower Upper

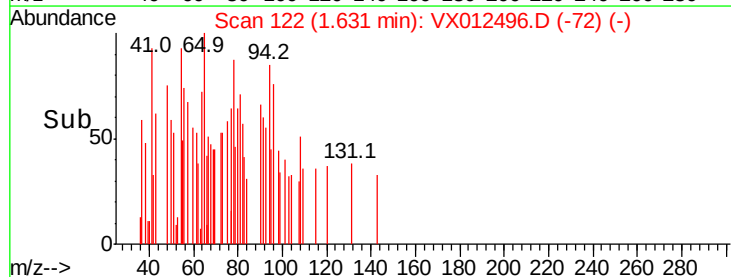
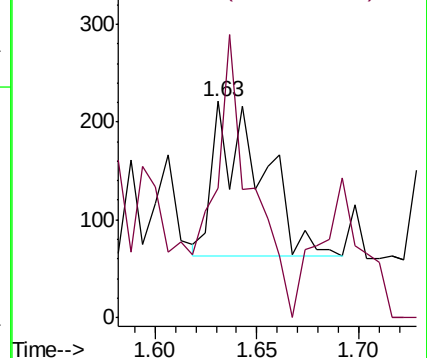
94 100

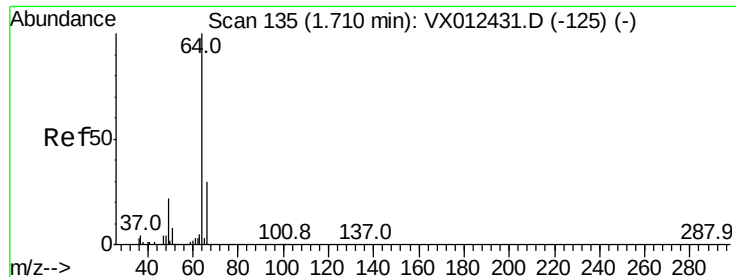
96 43.7 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.493 ug/l

RT: 1.71 min Scan# 135

Delta R.T. 0.00 min

Lab File: VX012496.D

Acq: 19 Sep 2019 00:44

Instrument :

MSVOA_X

ClientSampled :

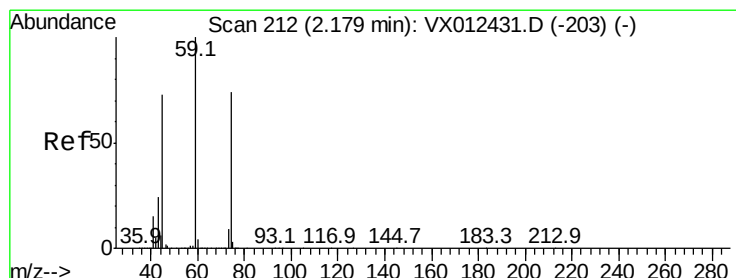
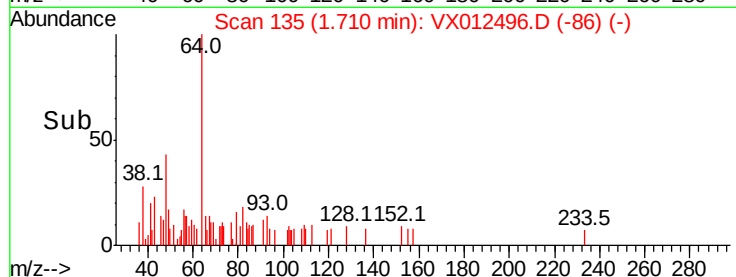
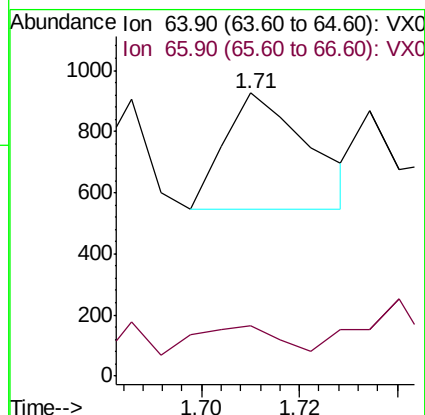
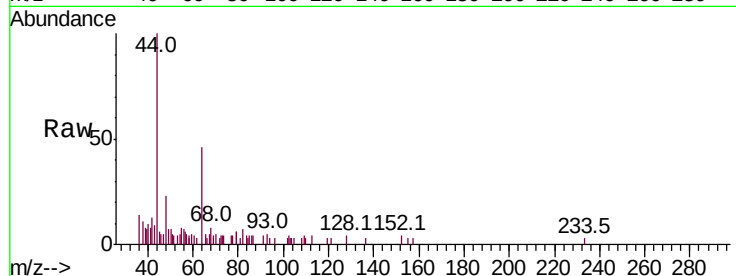
Z3-TB-2019-1

Tot Ion: 64 Resp: 450

Ion Ratio Lower Upper

64 100

66 7.1 24.0 36.0#



#8

Diethyl Ether

Concen: 0.224 ug/l

RT: 2.24 min Scan# 222

Delta R.T. 0.06 min

Lab File: VX012496.D

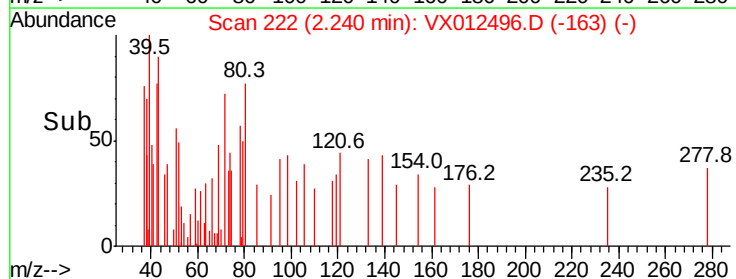
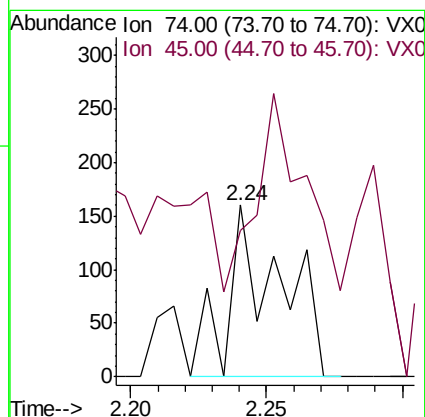
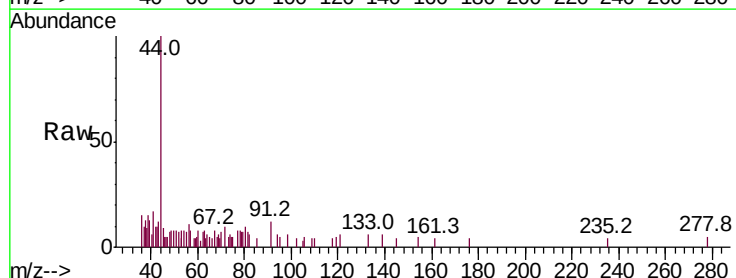
Acq: 19 Sep 2019 00:44

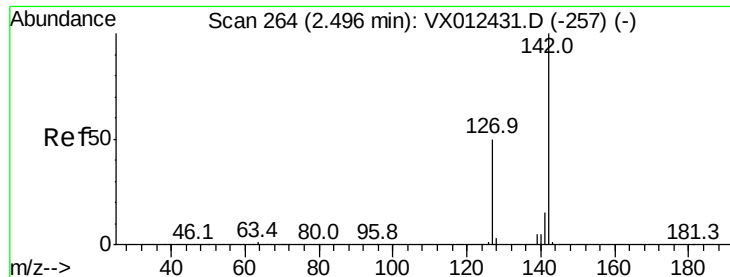
Tgt Ion: 74 Resp: 216

Ion Ratio Lower Upper

74 100

45 147.7 49.9 149.7

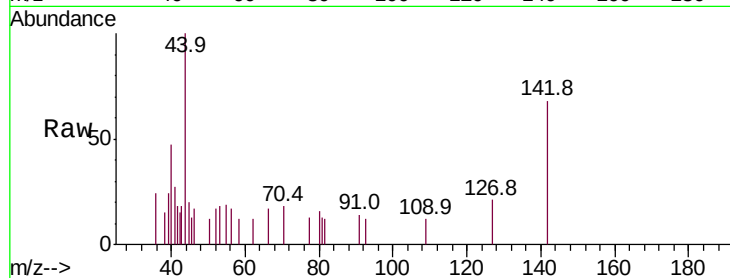




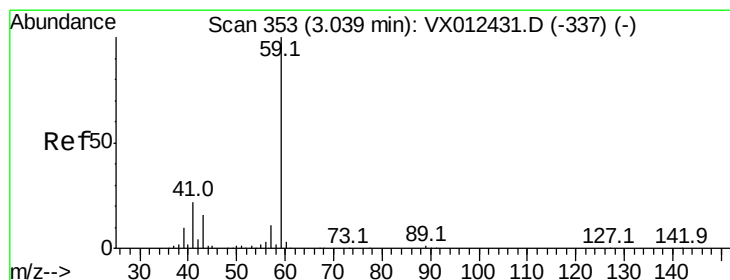
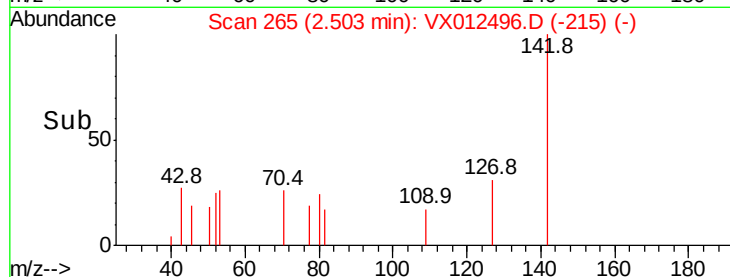
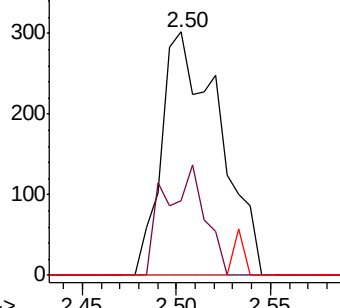
#10
Methyl Iodide
Concen: 4.884 ug/l
RT: 2.50 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX012496.D
Acq: 19 Sep 2019 00:44

Instrument :
MSVOA_X
ClientSampled :
Z3-TB-2019-1

Tot Ion:142 Resp: 643
Ion Ratio Lower Upper
142 100
127 31.6 40.8 61.2#
141 0.0 12.1 18.1#

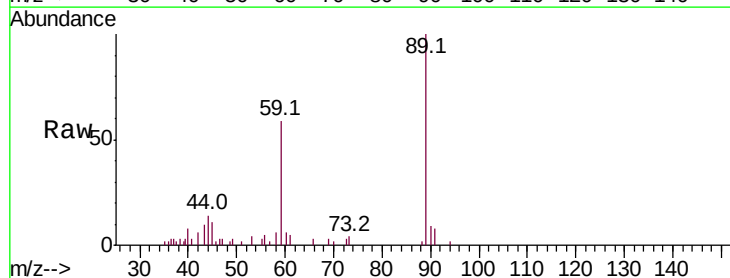


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

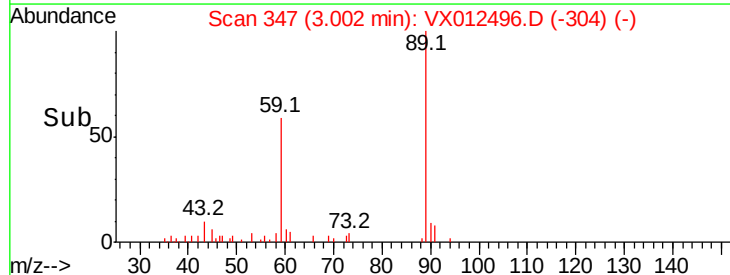
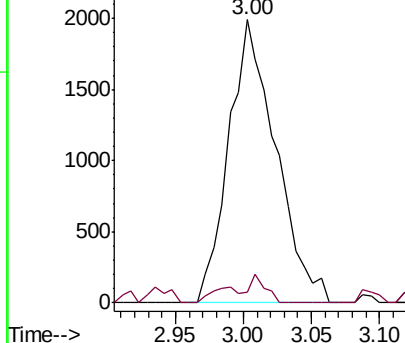


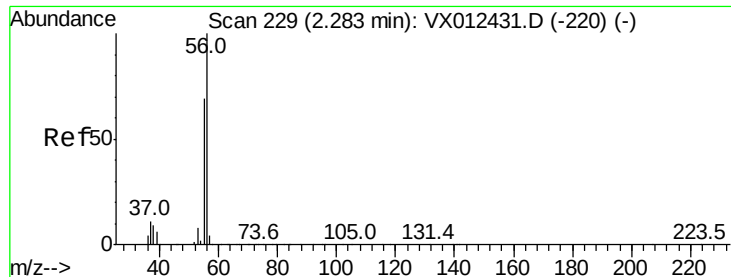
#11
Tert butyl alcohol
Concen: 0.868 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.04 min
Lab File: VX012496.D
Acq: 19 Sep 2019 00:44

Tgt Ion: 59 Resp: 4792
Ion Ratio Lower Upper
59 100
57 3.5 8.3 12.5#



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





#13

Acrolein

Concen: Below Cal

RT: 2.31 min Scan# 233

Delta R.T. 0.02 min

Lab File: VX012496.D

Acq: 19 Sep 2019 00:44

Instrument :

MSVOA_X

ClientSampled :

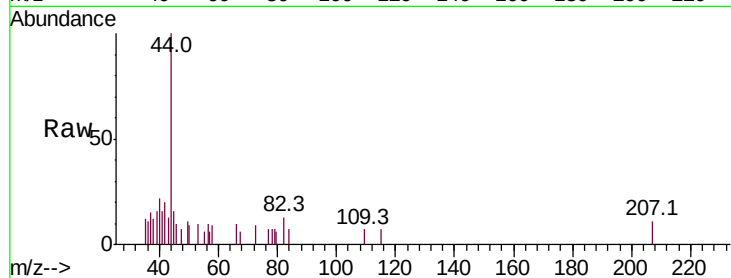
Z3-TB-2019-1

Tot Ion: 56 Resp: 54

Ion Ratio Lower Upper

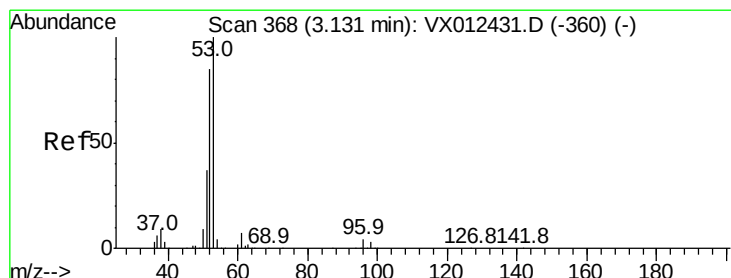
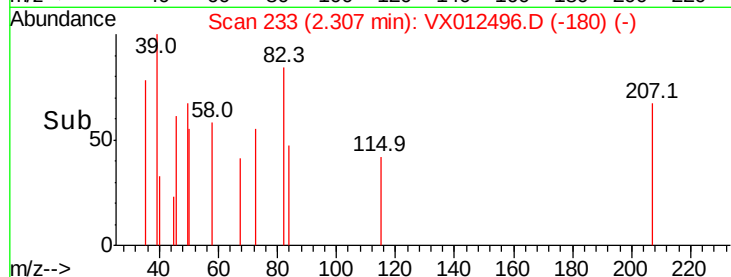
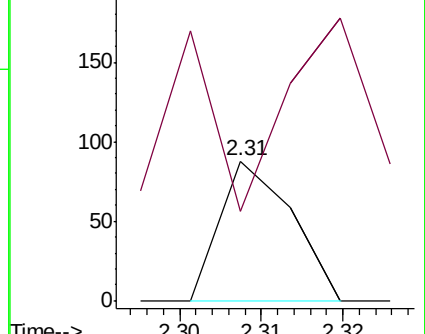
56 100

55 309.3 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.362 ug/l

RT: 3.14 min Scan# 369

Delta R.T. 0.01 min

Lab File: VX012496.D

Acq: 19 Sep 2019 00:44

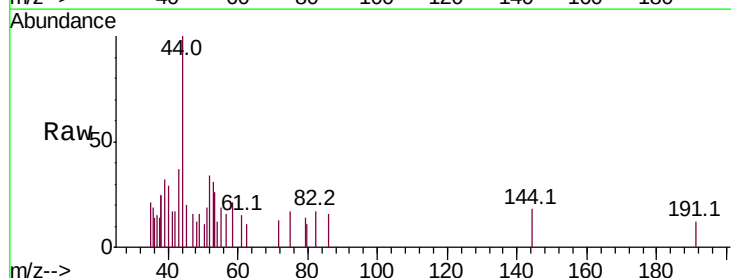
Tgt Ion: 53 Resp: 441

Ion Ratio Lower Upper

53 100

52 0.0 67.0 100.4#

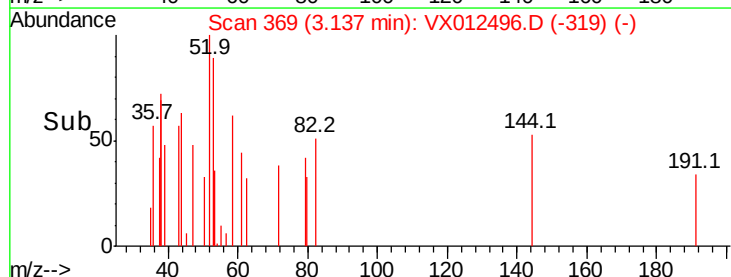
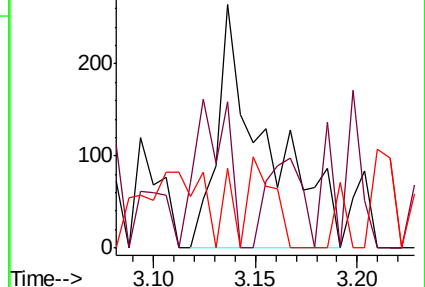
51 26.3 29.6 44.4#

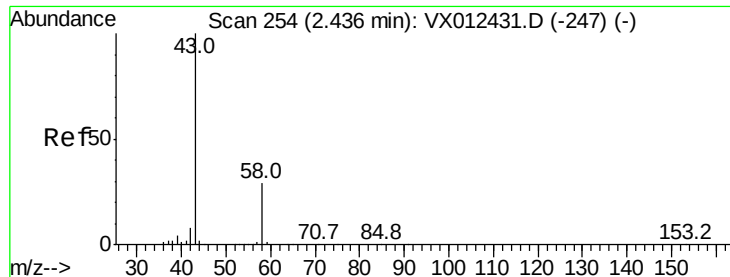


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012496.D

Acq: 19 Sep 2019 00:44

Instrument :

MSVOA_X

ClientSampled :

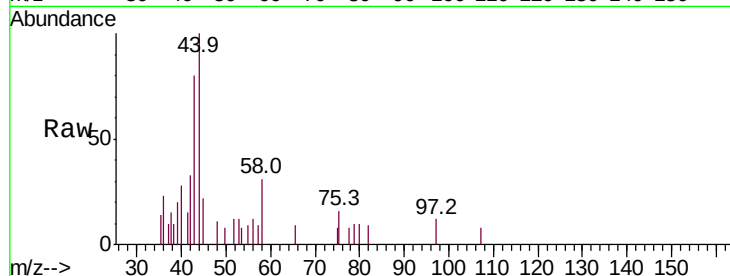
Z3-TB-2019-1

Tot Ion: 43 Resp: 871

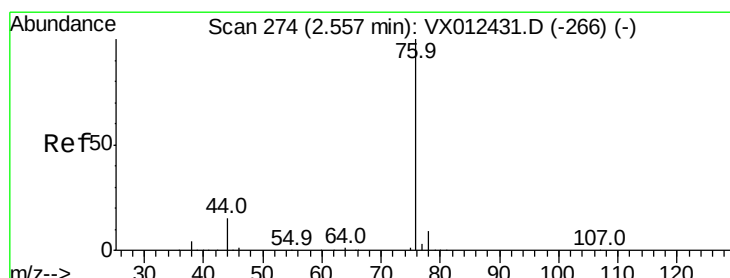
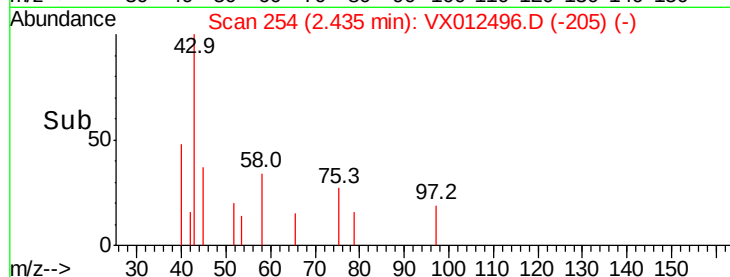
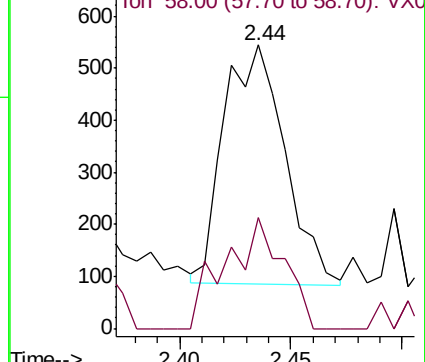
Ion Ratio Lower Upper

43 100

58 46.9 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0



#17

Carbon Disulfide

Concen: 2.043 ug/l

RT: 2.55 min Scan# 273

Delta R.T. -0.01 min

Lab File: VX012496.D

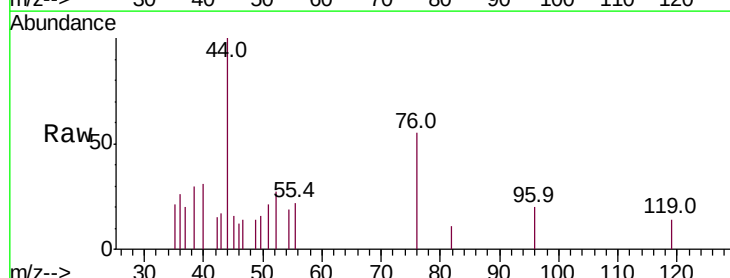
Acq: 19 Sep 2019 00:44

Tgt Ion: 76 Resp: 428

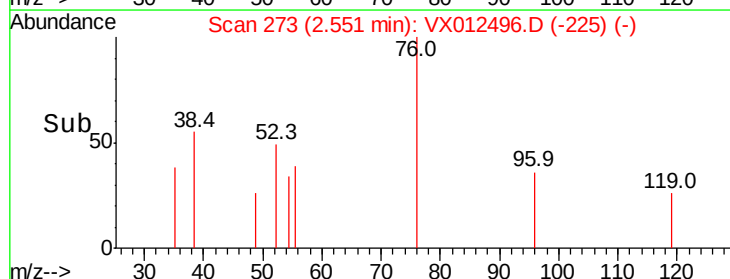
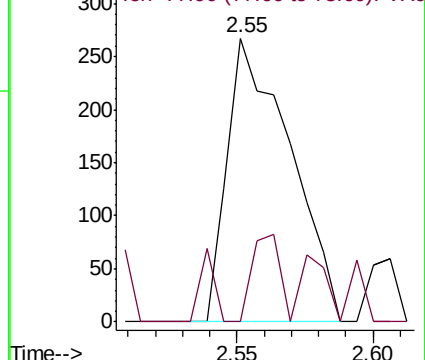
Ion Ratio Lower Upper

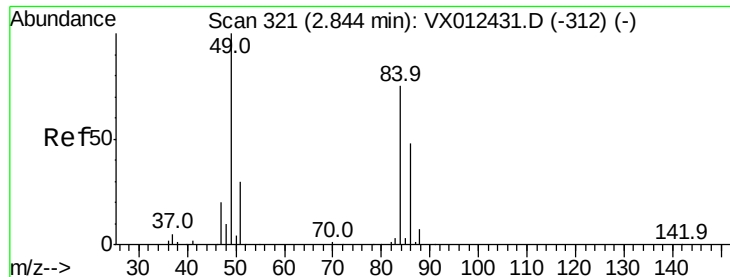
76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

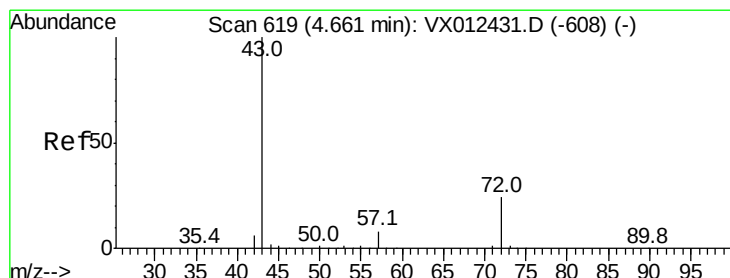
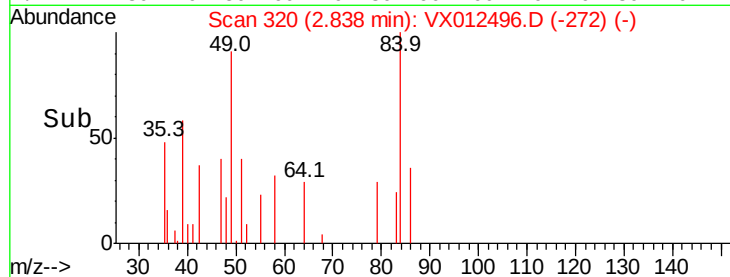
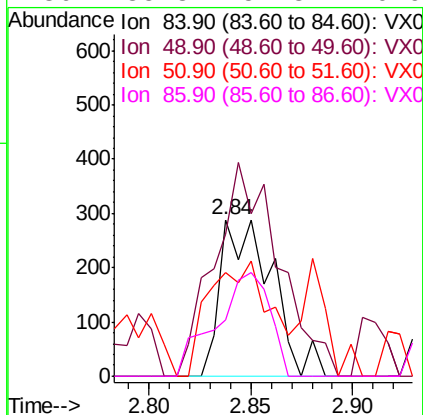
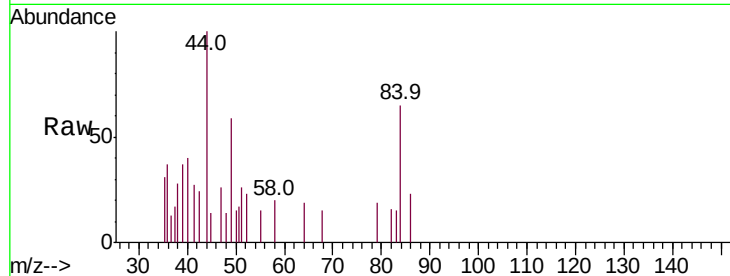




#20
Methylene Chloride
Concen: 0.297 ug/l
RT: 2.84 min Scan# 320
Delta R.T. -0.01 min
Lab File: VX012496.D
Acq: 19 Sep 2019 00:44

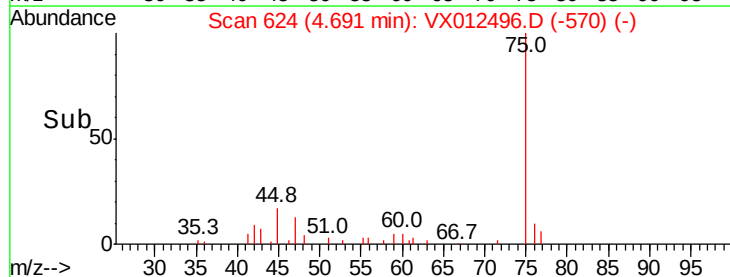
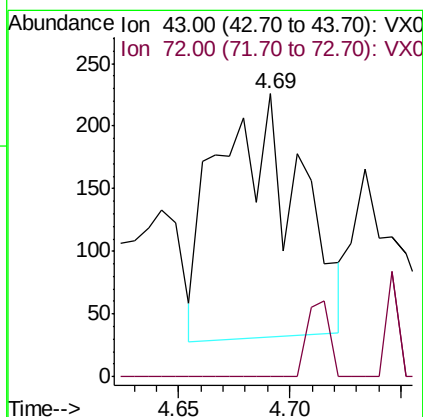
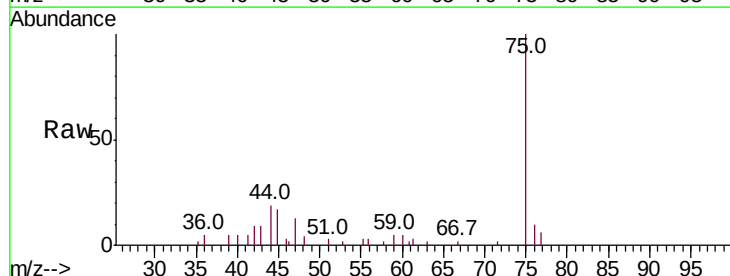
Instrument :
MSVOA_X
ClientSampleId :
Z3-TB-2019-1

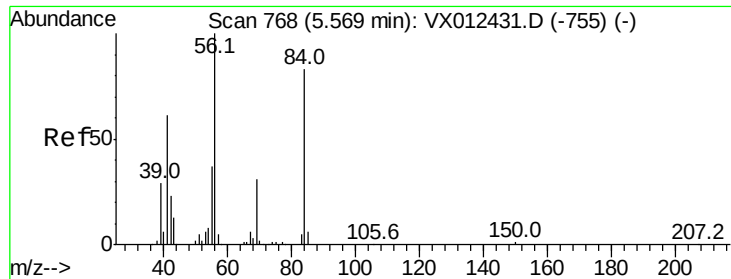
Tot Ion: 84 Resp: 505
Ion Ratio Lower Upper
84 100
49 90.6 106.8 160.2#
51 66.7 32.3 48.5#
86 35.8 51.3 76.9#



#25
2-Butanone
Concen: 0.256 ug/l
RT: 4.69 min Scan# 624
Delta R.T. 0.03 min
Lab File: VX012496.D
Acq: 19 Sep 2019 00:44

Tgt Ion: 43 Resp: 500
Ion Ratio Lower Upper
43 100
72 0.0 19.2 28.8#

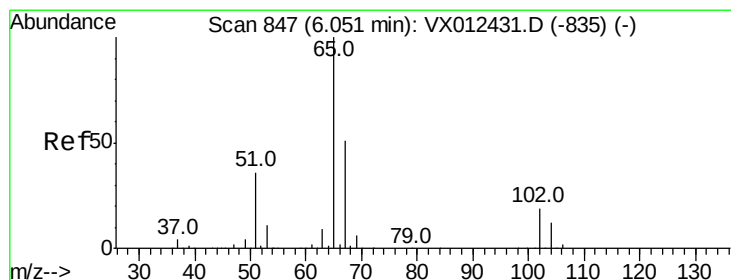
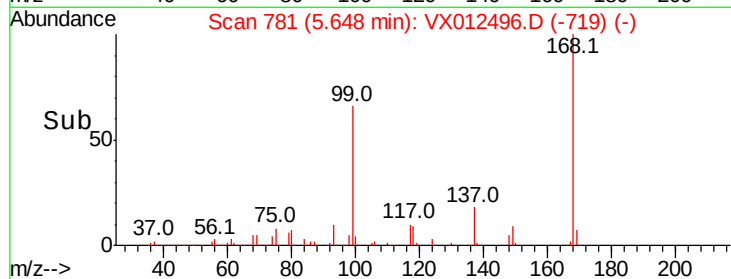
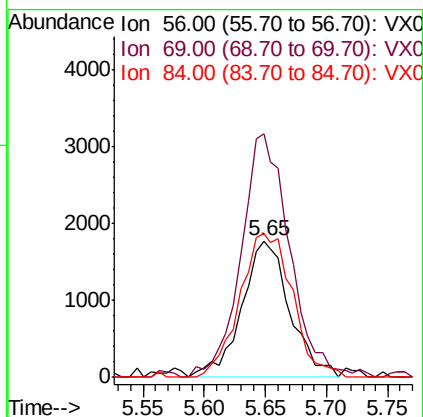
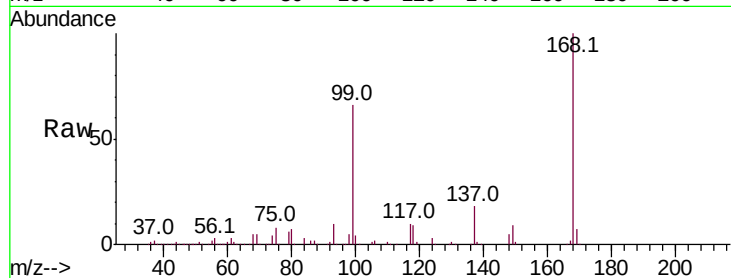




#31
Cyclohexane
Concen: 2.493 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX012496.D
Acq: 19 Sep 2019 00:44

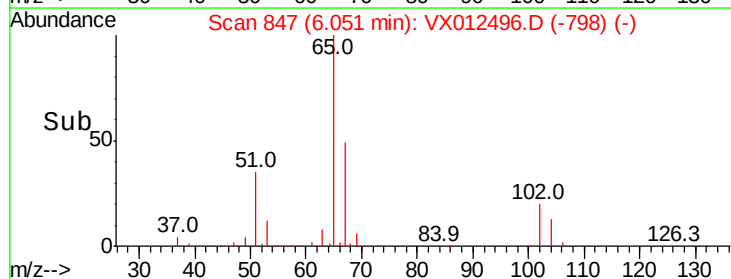
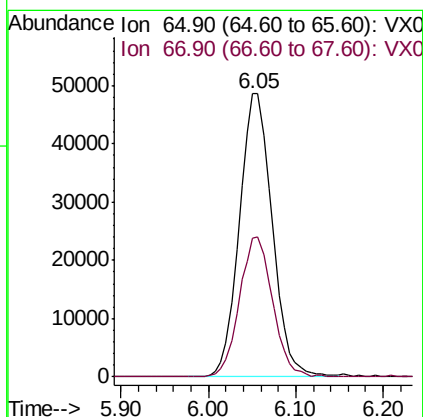
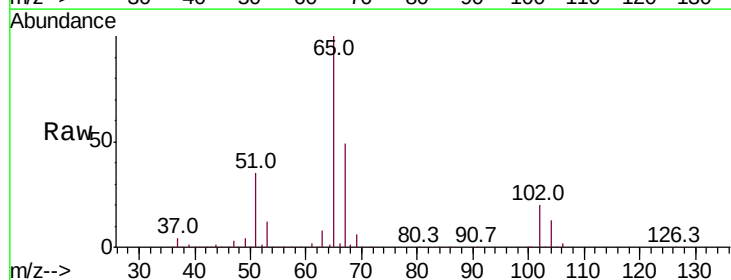
Instrument :
MSVOA_X
ClientSampled :
Z3-TB-2019-1

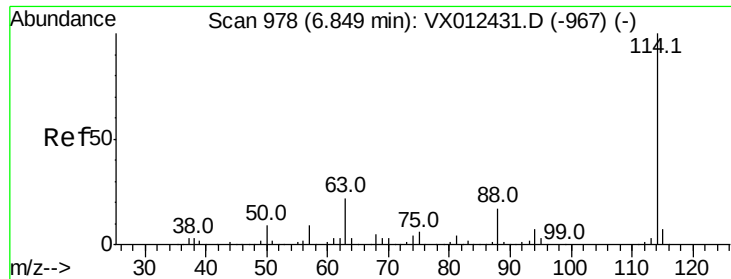
Tot Ion: 56 Resp: 4841
Ion Ratio Lower Upper
56 100
69 178.6 25.0 37.6#
84 105.4 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 45.239 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.00 min
Lab File: VX012496.D
Acq: 19 Sep 2019 00:44

Tgt Ion: 65 Resp: 127211
Ion Ratio Lower Upper
65 100
67 49.8 0.0 101.2

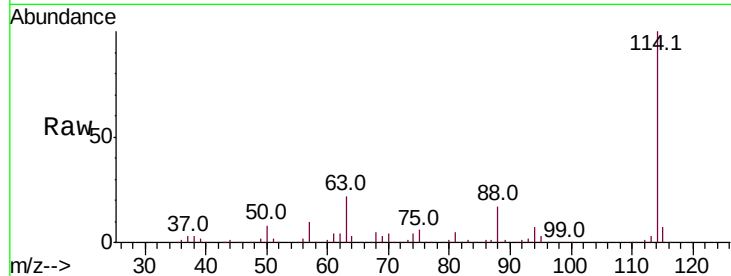




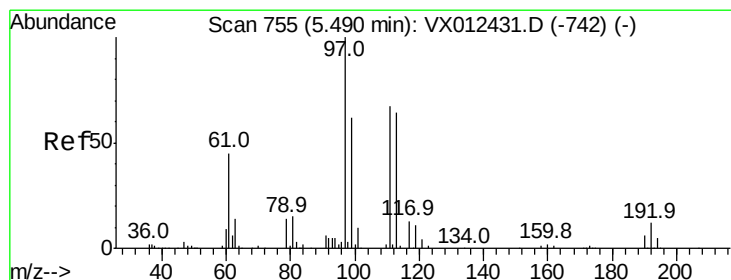
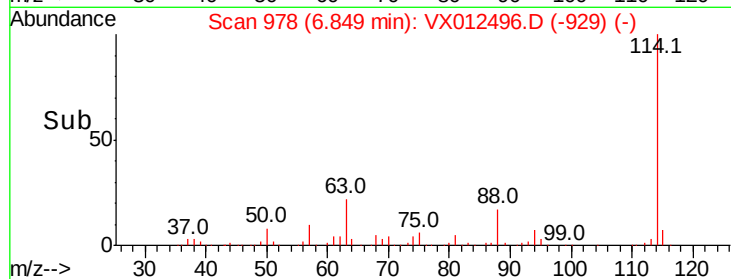
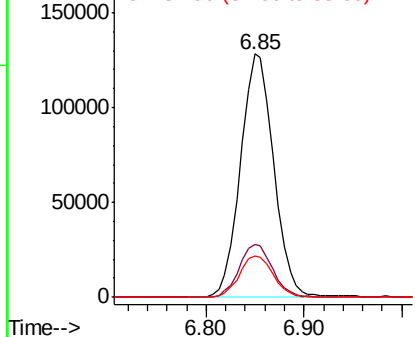
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX012496.D
 Acq: 19 Sep 2019 00:44

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB-2019-1

Tot Ion:114 Resp: 302146
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 43.2
 88 17.1 0.0 33.2

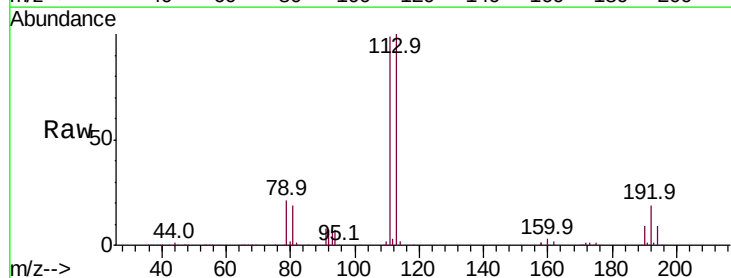


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

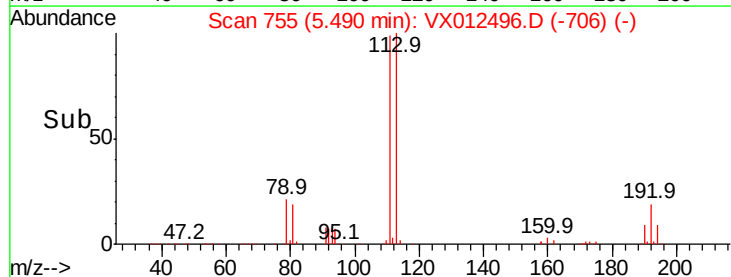
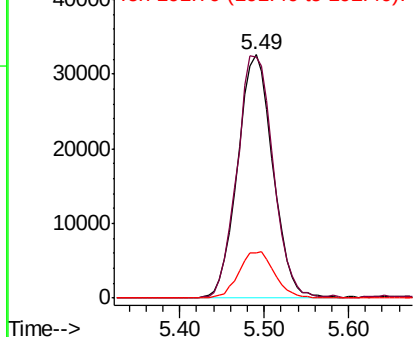


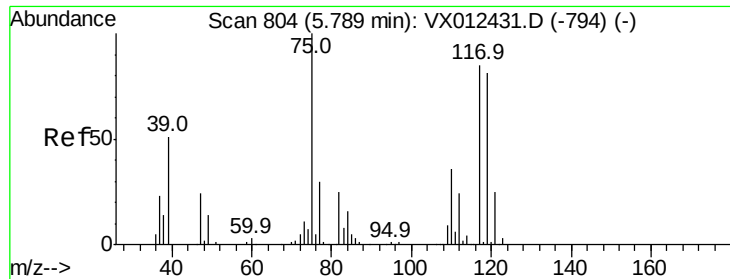
#35
 Dibromofluoromethane
 Concen: 50.595 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. -0.00 min
 Lab File: VX012496.D
 Acq: 19 Sep 2019 00:44

Tgt Ion:113 Resp: 92526
 Ion Ratio Lower Upper
 113 100
 111 101.8 83.4 125.2
 192 19.3 14.4 21.6



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

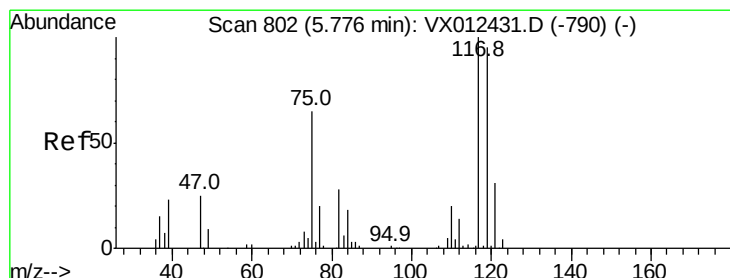
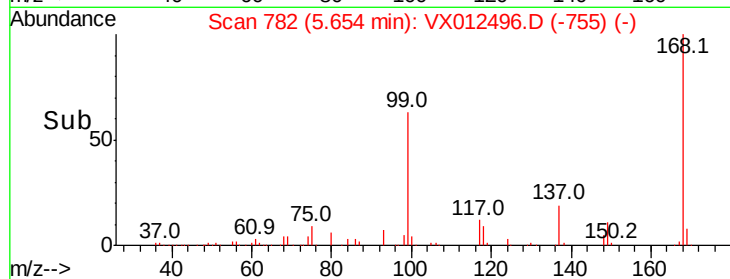
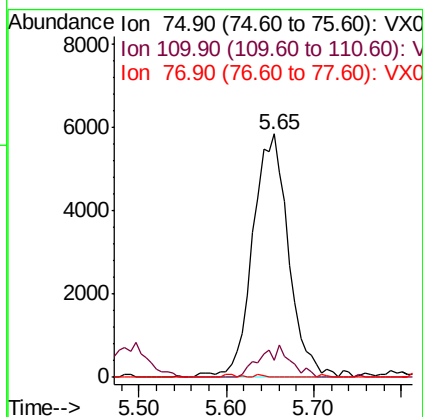
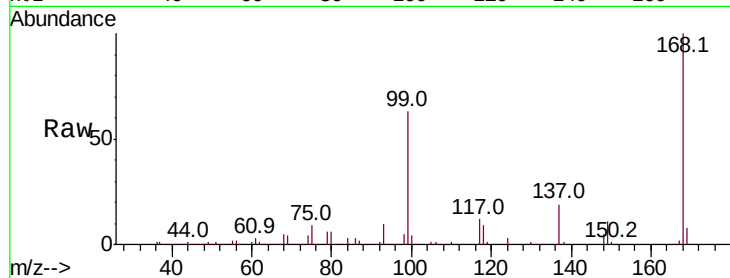




#36
 1,1-Dichloropropene
 Concen: 9.091 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX012496.D
 Acq: 19 Sep 2019 00:44

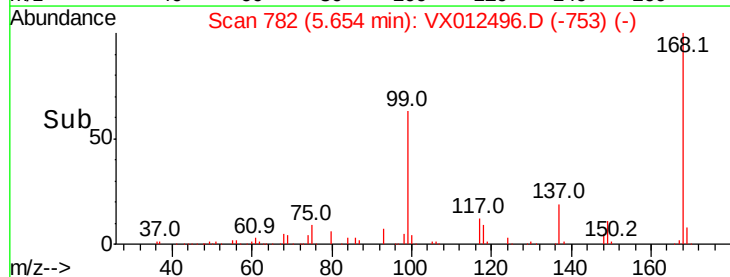
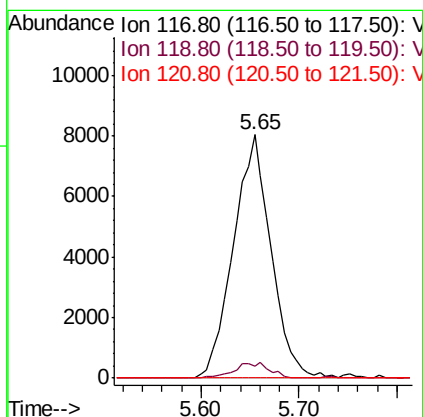
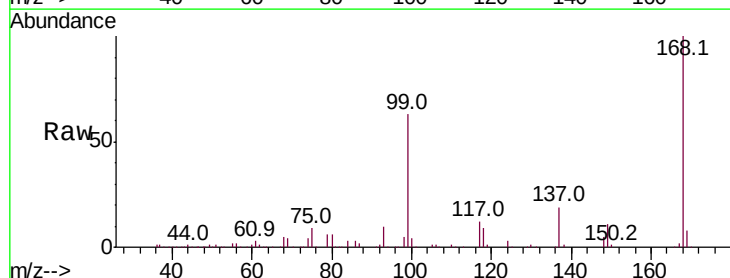
Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB-2019-1

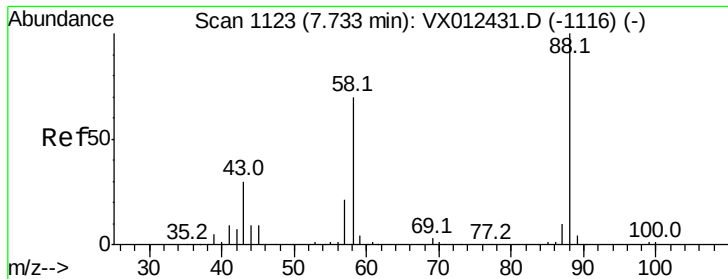
Tot Ion: 75 Resp: 16693
 Ion Ratio Lower Upper
 75 100
 110 5.9 16.7 50.0#
 77 0.3 24.2 36.2#



#38
 Carbon Tetrachloride
 Concen: 9.377 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX012496.D
 Acq: 19 Sep 2019 00:44

Tgt Ion: 117 Resp: 21416
 Ion Ratio Lower Upper
 117 100
 119 5.0 75.7 113.5#
 121 0.0 24.2 36.4#





#49

1,4-Dioxane

Concen: 0.465 ug/l

RT: 7.81 min Scan# 1136

Delta R.T. 0.08 min

Lab File: VX012496.D

Acq: 19 Sep 2019 00:44

Instrument :

MSVOA_X

ClientSampled :

Z3-TB-2019-1

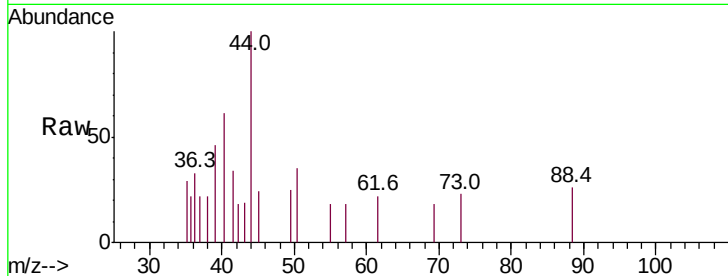
Tot Ion: 88 Resp: 27

Ion Ratio Lower Upper

88 100

43 274.1 29.4 44.0#

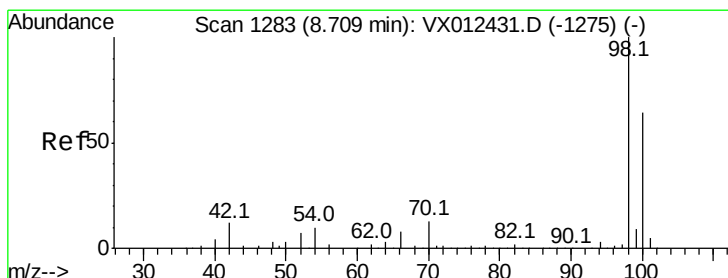
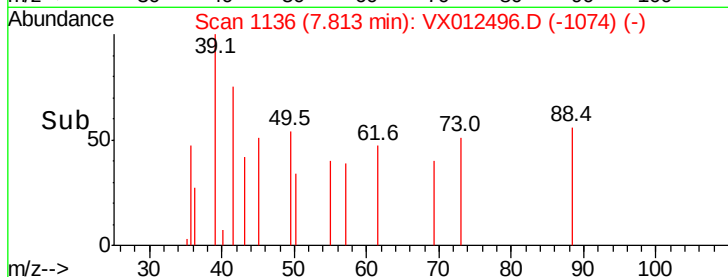
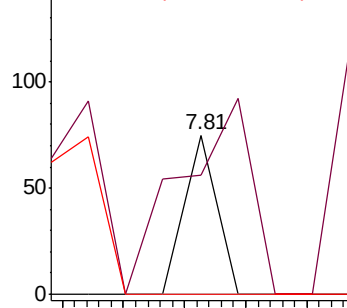
58 0.0 57.5 86.3#



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: 52.032 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX012496.D

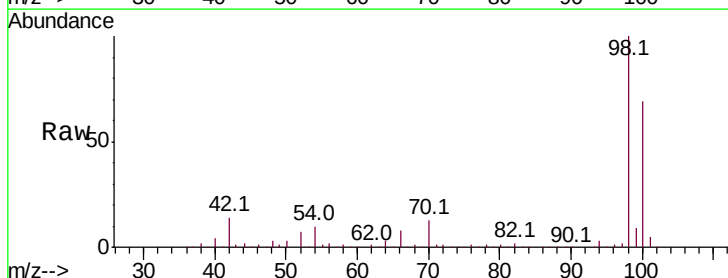
Acq: 19 Sep 2019 00:44

Tgt Ion: 98 Resp: 352210

Ion Ratio Lower Upper

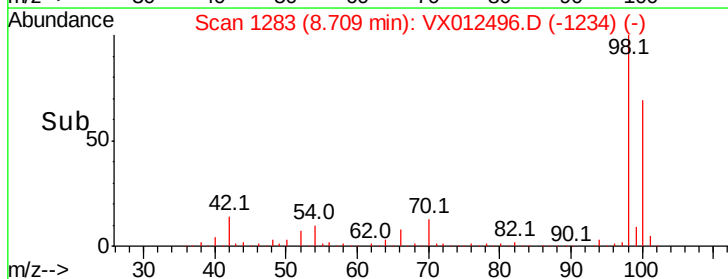
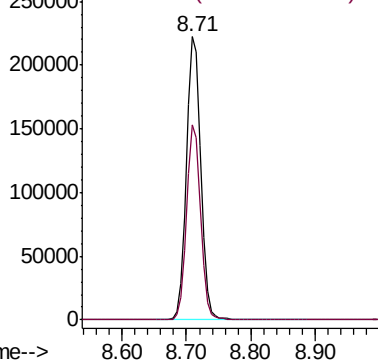
98 100

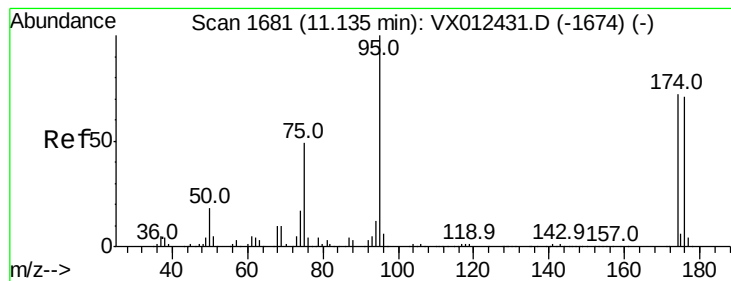
100 67.2 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.352 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012496.D

Acq: 19 Sep 2019 00:44

Instrument :

MSVOA_X

ClientSampled :

Z3-TB-2019-1

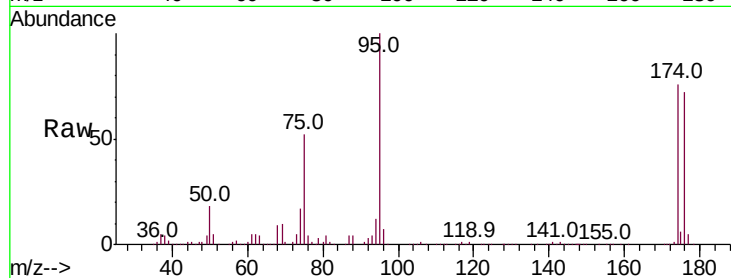
Tot Ion: 95 Resp: 127464

Ion Ratio Lower Upper

95 100

174 73.0 0.0 140.0

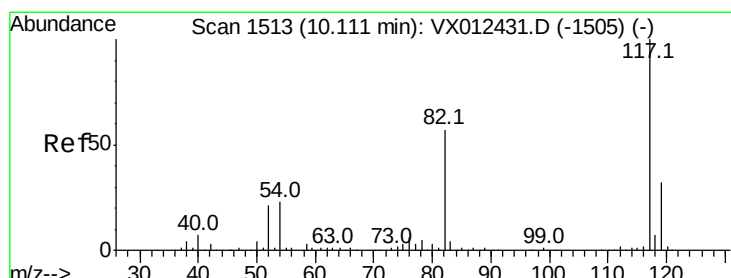
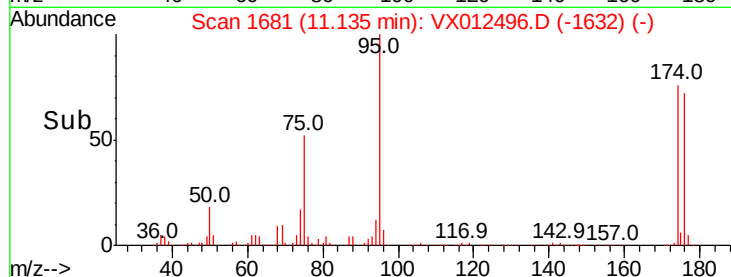
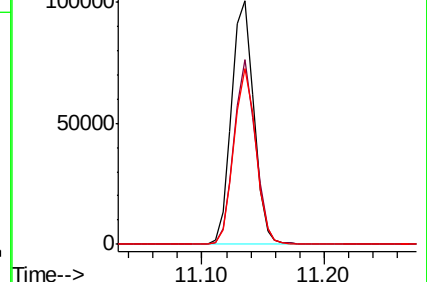
176 70.5 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX012431.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX012431.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX012431.D (-1674) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX012496.D

Acq: 19 Sep 2019 00:44

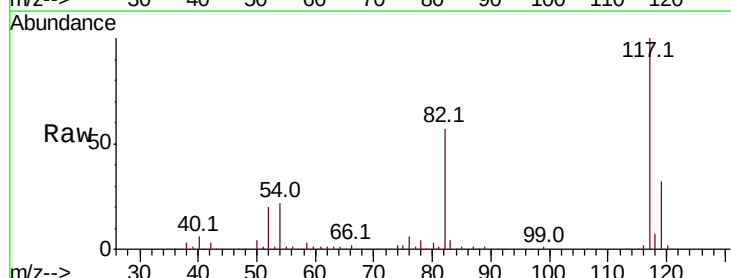
Tgt Ion: 117 Resp: 263245

Ion Ratio Lower Upper

117 100

82 56.6 45.9 68.9

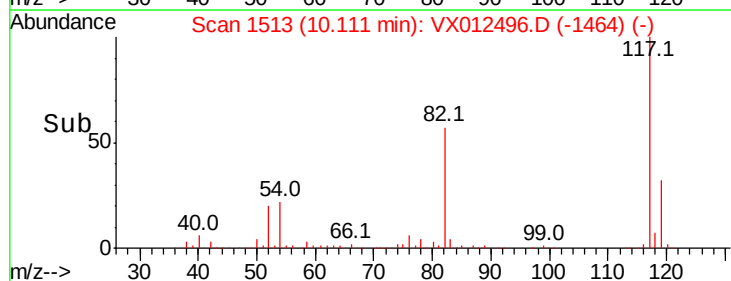
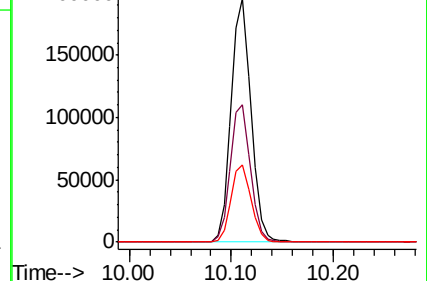
119 31.9 25.3 37.9

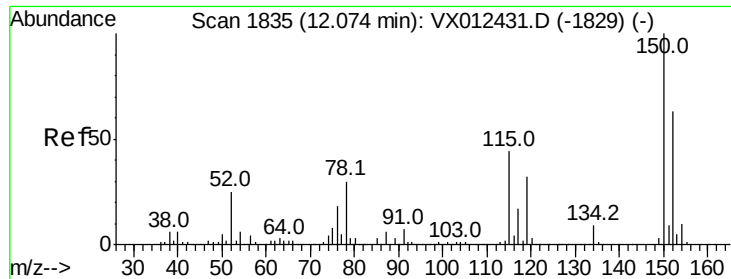


Abundance Ion 116.90 (116.60 to 117.60): VX012431.D (-1505) (-)

Ion 82.00 (81.70 to 82.70): VX012431.D (-1505) (-)

Ion 118.90 (118.60 to 119.60): VX012431.D (-1505) (-)



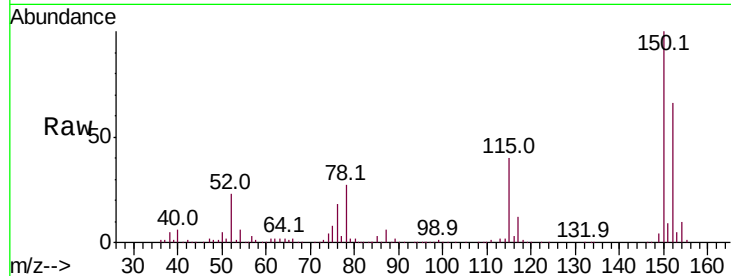


#72

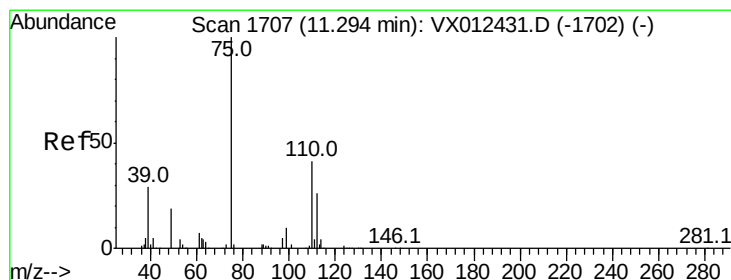
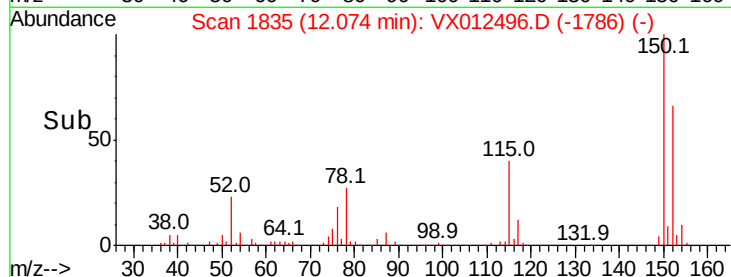
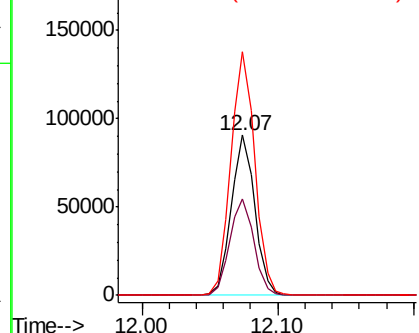
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX012496.D
Acq: 19 Sep 2019 00:44

Instrument :
MSVOA_X
ClientSampleId :
Z3-TB-2019-1

Tot Ion:152 Resp: 108594
Ion Ratio Lower Upper
152 100
115 61.9 44.1 132.3
150 155.5 0.0 343.8



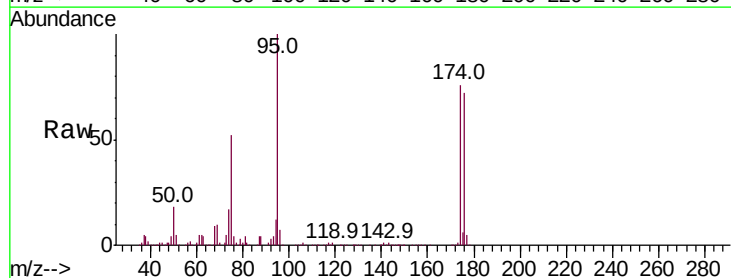
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



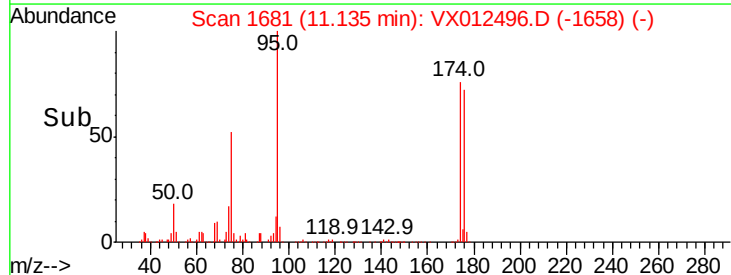
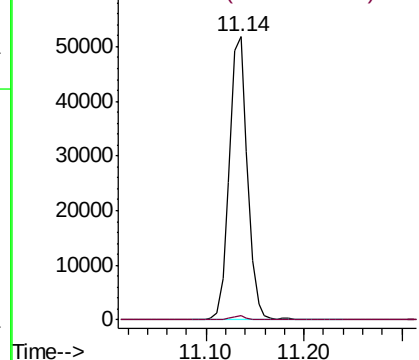
#76

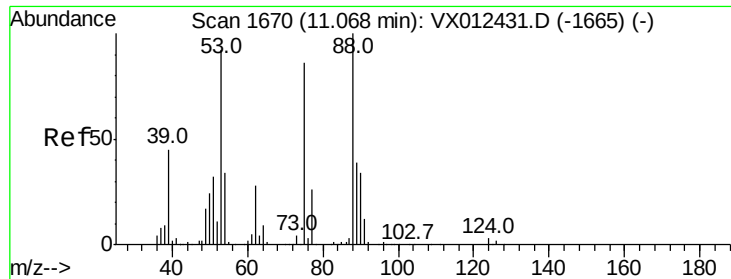
1,2,3-Trichloropropane
Concen: 26.774 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.16 min
Lab File: VX012496.D
Acq: 19 Sep 2019 00:44

Tgt Ion: 75 Resp: 66788
Ion Ratio Lower Upper
75 100
77 1.4 19.7 59.0#



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: 72.050 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012496.D

Acq: 19 Sep 2019 00:44

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB-2019-1

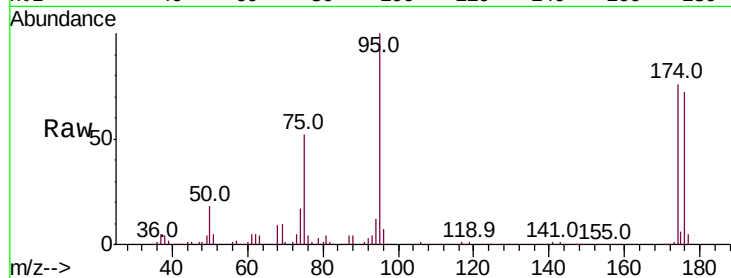
Tot Ion: 75 Resp: 66788

Ion Ratio Lower Upper

75 100

53 0.2 83.6 125.4#

89 0.0 36.3 54.5#



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

