

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX100319\
 Data File : VX012789.D
 Acq On : 03 Oct 2019 17:23
 Operator : JC/SP
 Sample : K5189-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ163I-20190930

Quant Time: Oct 04 06:50:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	168894	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	289588	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	243119	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	81463	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	118445	48.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.32%	
35) Dibromofluoromethane	5.49	113	87917	50.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.96%	
50) Toluene-d8	8.71	98	343250	51.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.36%	
62) 4-Bromofluorobenzene	11.14	95	106107	40.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.26%	

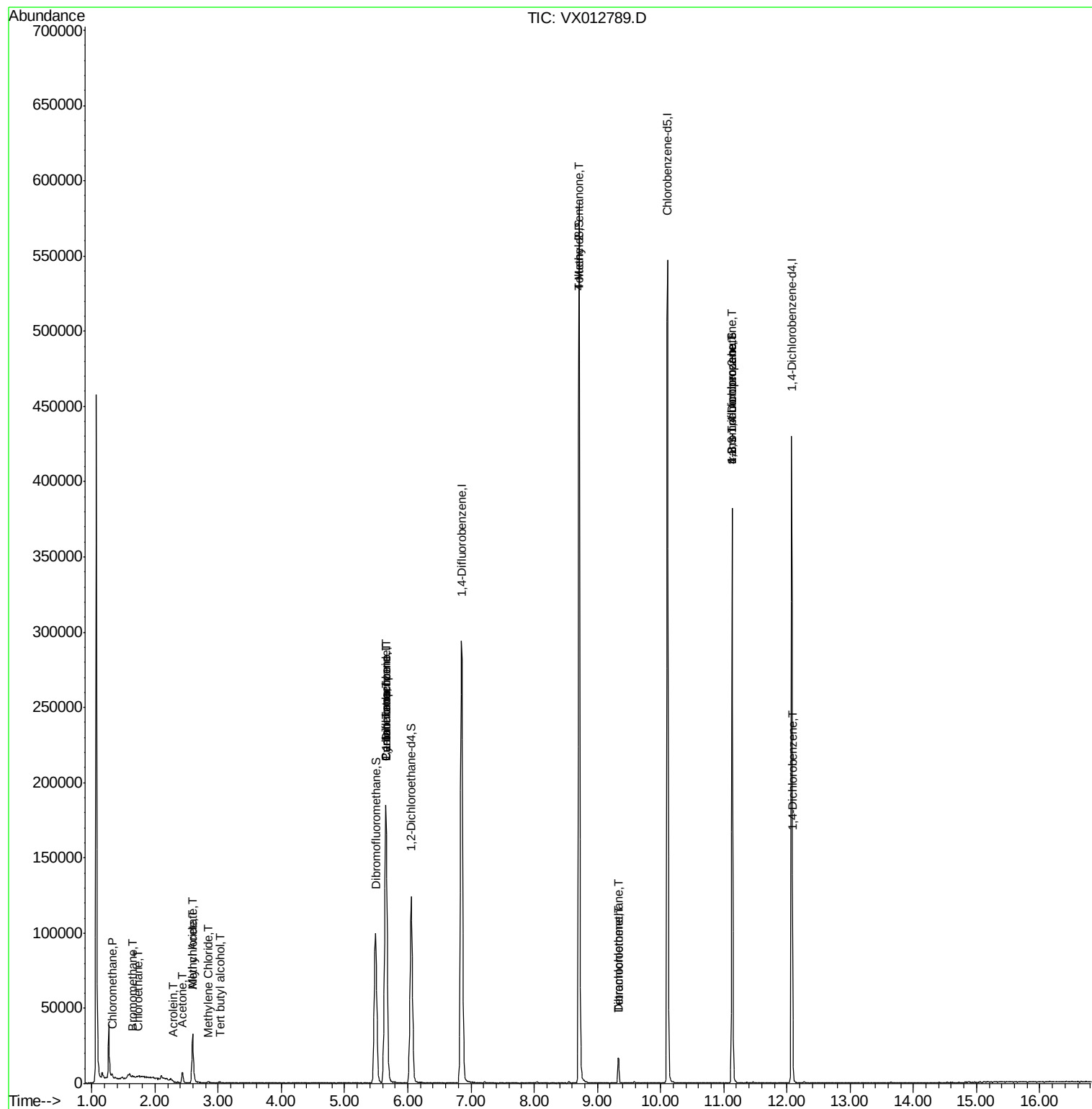
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1173	0.538	ug/l	96
5) Bromomethane	1.65	94	450	0.528	ug/l #	57
6) Chloroethane	1.73	64	507	0.347	ug/l #	62
11) Tert butyl alcohol	3.03	59	1019	1.659	ug/l #	87
13) Acrolein	2.30	56	20	10.289	ug/l #	15
14) Allyl chloride	2.60	41	3479	0.966	ug/l #	65
16) Acetone	2.44	43	7667	5.885	ug/l	96
18) Methyl Acetate	2.59	43	9334	3.043	ug/l #	54
20) Methylene Chloride	2.85	84	441	0.200	ug/l #	62
31) Cyclohexane	5.66	56	3882	1.134	ug/l #	36
36) 1,1-Dichloropropene	5.65	75	13947	4.997	ug/l #	52
38) Carbon Tetrachloride	5.65	117	18377	6.481	ug/l #	17
51) 4-Methyl-2-Pentanone	8.71	43	1638	0.486	ug/l #	1
60) Dibromochloromethane	9.33	129	3129	1.506	ug/l #	11
64) Tetrachloroethene	9.33	164	3156	1.862	ug/l	96
76) 1,2,3-Trichloropropane	11.14	75	54205	25.154	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	54205	72.087	ug/l #	8
88) 1,4-Dichlorobenzene	12.09	146	961	0.352	ug/l #	67

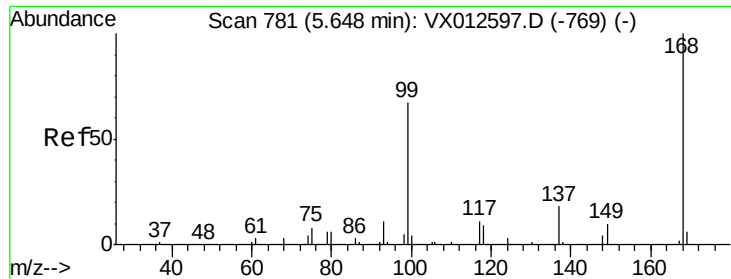
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX012789.D

Acq: 03 Oct 2019 17:23

Instrument :

MSVOA_X

ClientSampleId :

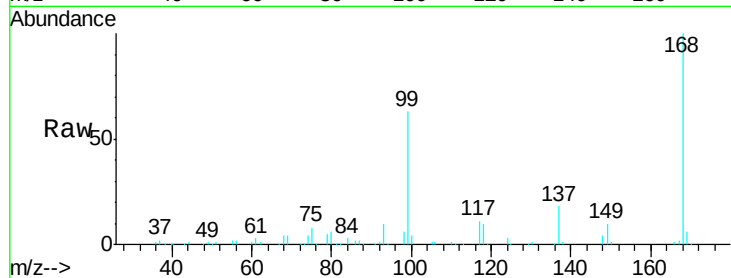
SA-PZ163I-20190930

Tgt Ion:168 Resp: 168894

Ion Ratio Lower Upper

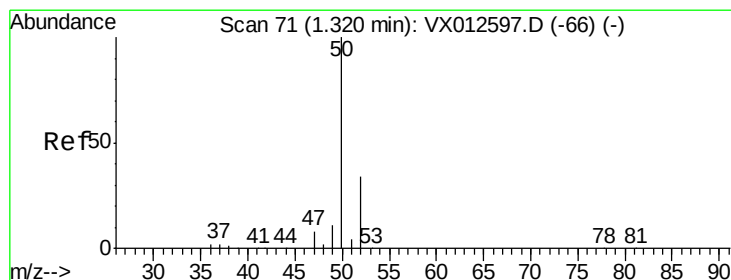
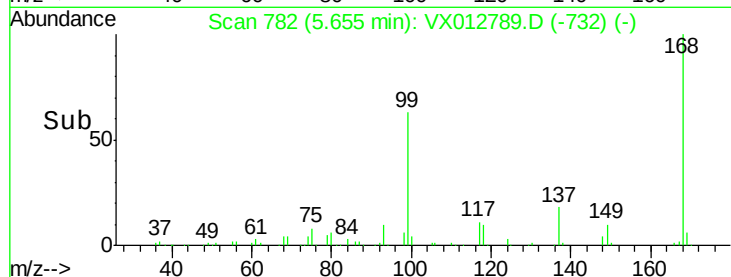
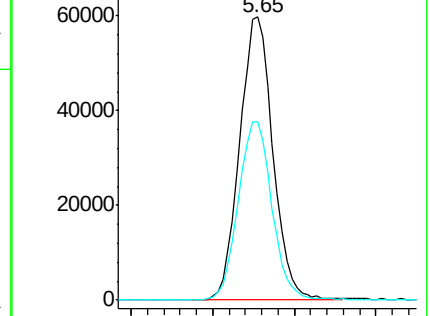
168 100

99 63.0 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.538 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012789.D

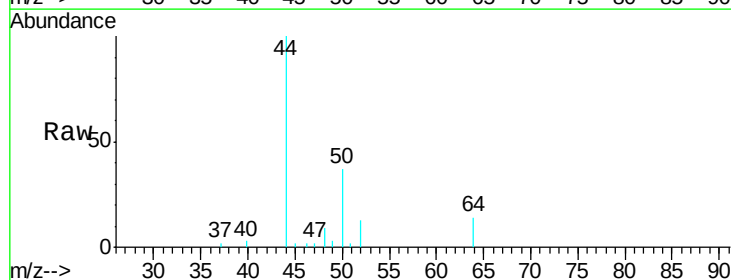
Acq: 03 Oct 2019 17:23

Tgt Ion: 50 Resp: 1173

Ion Ratio Lower Upper

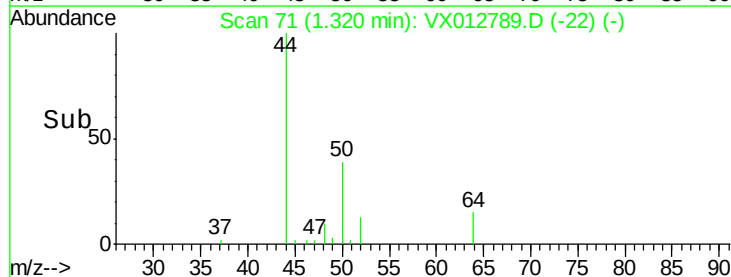
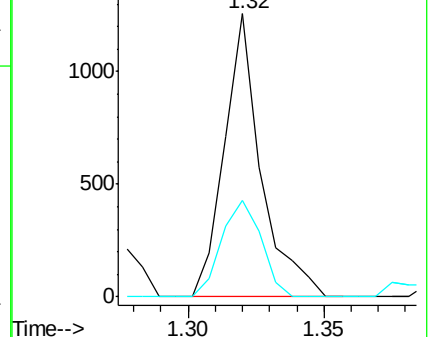
50 100

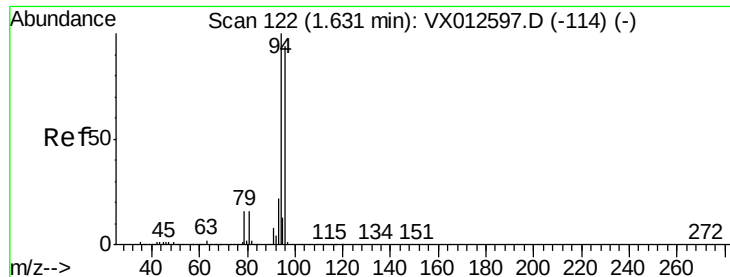
52 34.3 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.528 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX012789.D

Acq: 03 Oct 2019 17:23

Instrument :

MSVOA_X

ClientSampleId :

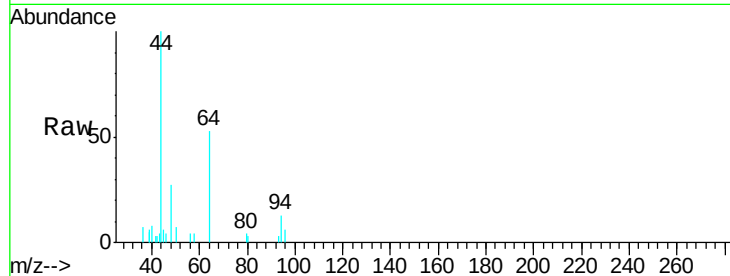
SA-PZ163I-20190930

Tgt Ion: 94 Resp: 450

Ion Ratio Lower Upper

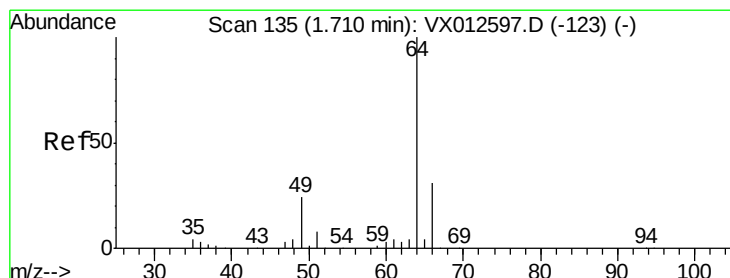
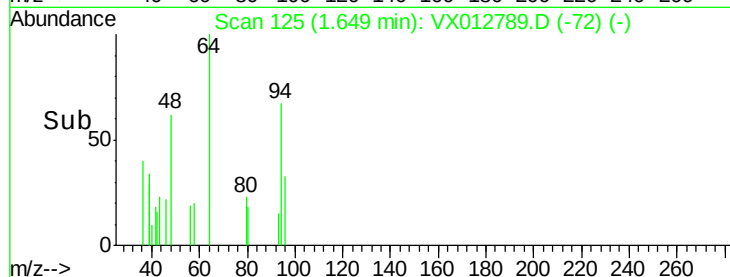
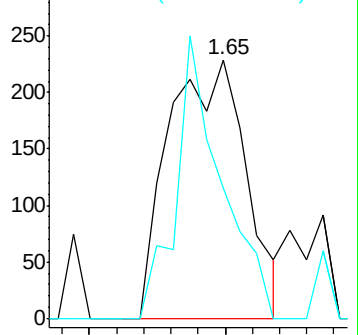
94 100

96 50.2 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: 0.347 ug/l

RT: 1.73 min Scan# 138

Delta R.T. 0.02 min

Lab File: VX012789.D

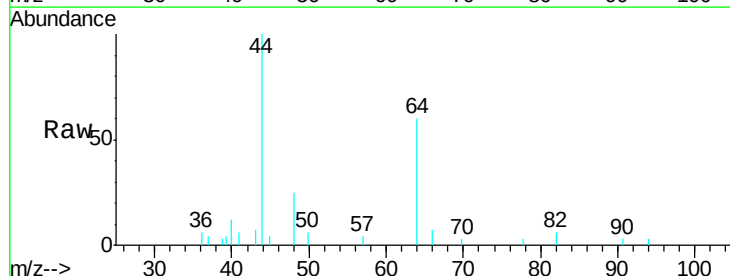
Acq: 03 Oct 2019 17:23

Tgt Ion: 64 Resp: 507

Ion Ratio Lower Upper

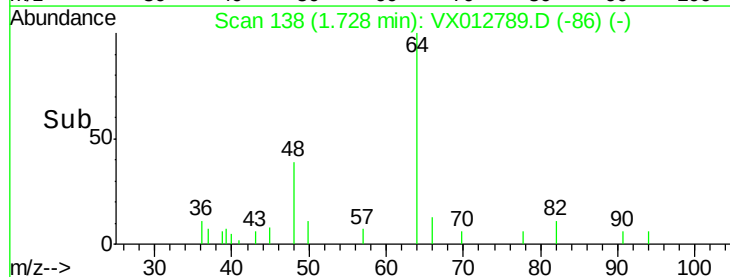
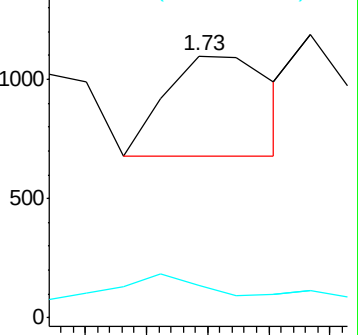
64 100

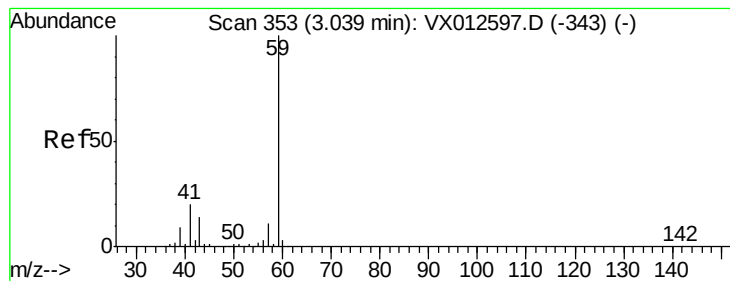
66 9.3 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



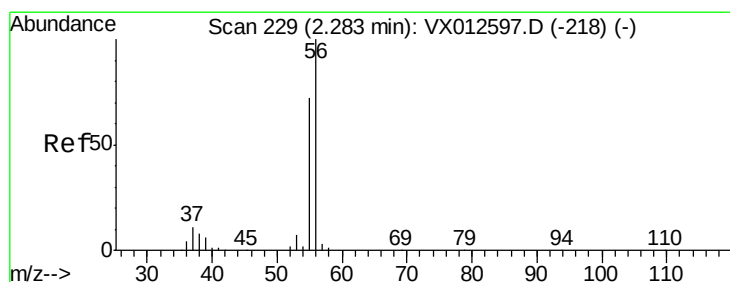
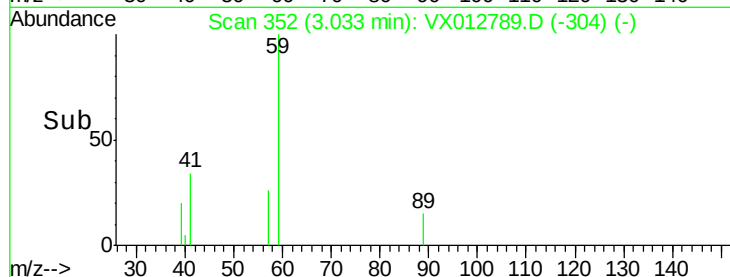
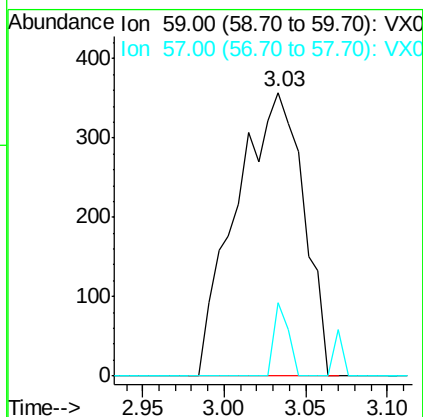
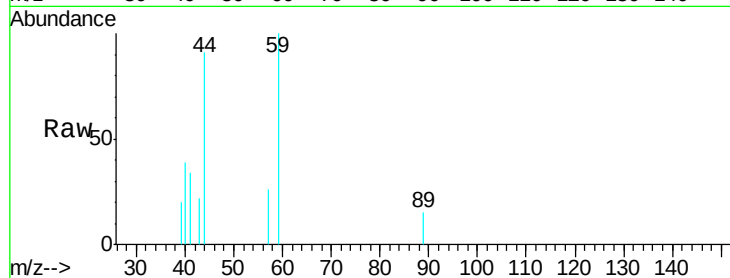


#11

Tert butyl alcohol
 Concen: 1.659 ug/l
 RT: 3.03 min Scan# 352
 Delta R.T. -0.01 min
 Lab File: VX012789.D
 Acq: 03 Oct 2019 17:23

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ1631-20190930

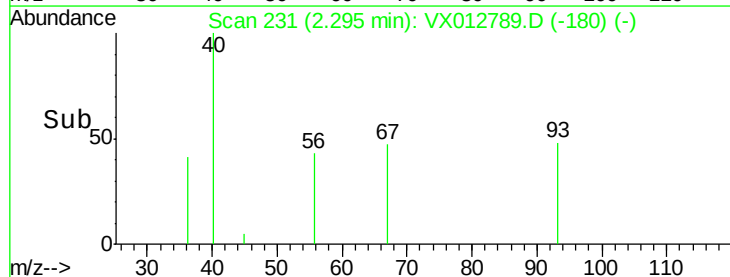
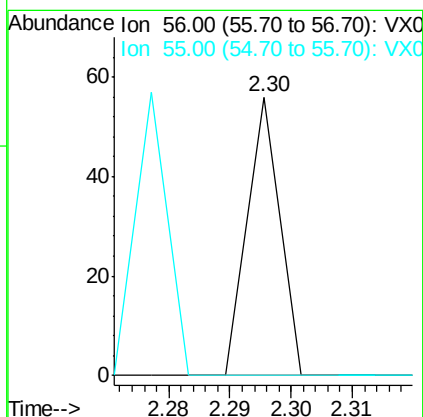
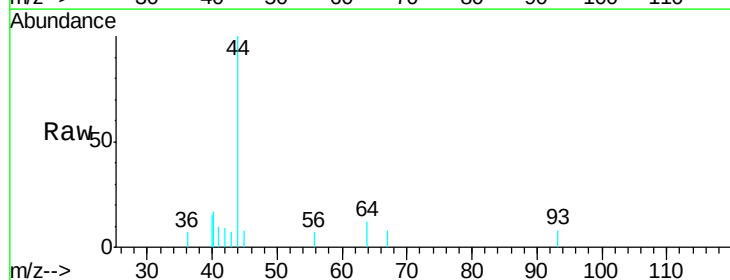
Tgt Ion: 59 Resp: 1019
 Ion Ratio Lower Upper
 59 100
 57 5.4 8.3 12.5#

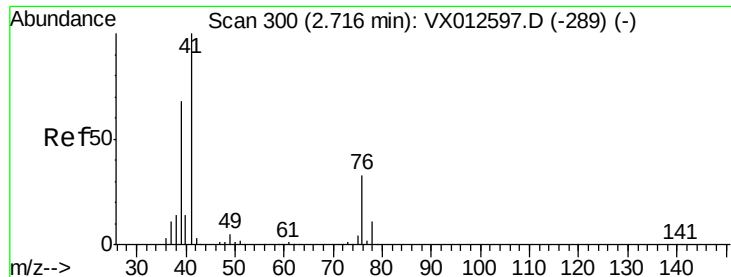


#13

Acrolein
 Concen: 10.289 ug/l
 RT: 2.30 min Scan# 231
 Delta R.T. 0.01 min
 Lab File: VX012789.D
 Acq: 03 Oct 2019 17:23

Tgt Ion: 56 Resp: 20
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.8 83.8#

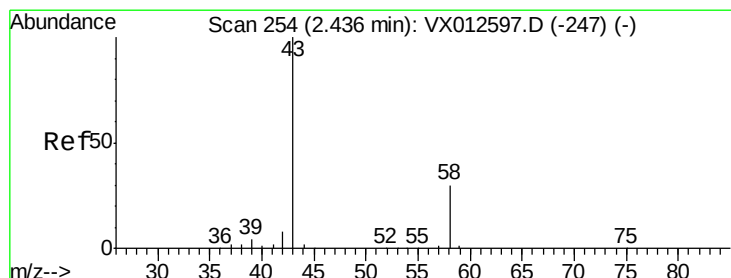
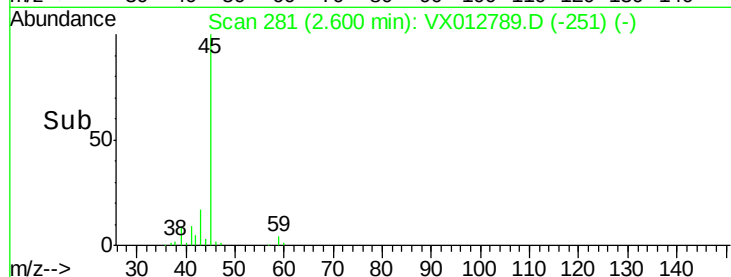
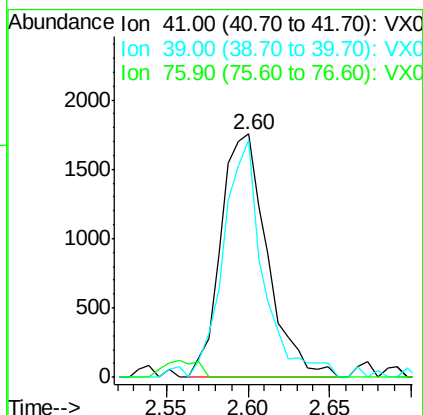
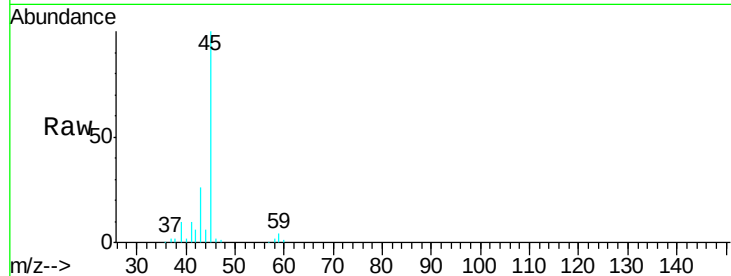




#14
 Allyl chloride
 Concen: 0.966 ug/l
 RT: 2.60 min Scan# 281
 Delta R.T. -0.12 min
 Lab File: VX012789.D
 Acq: 03 Oct 2019 17:23

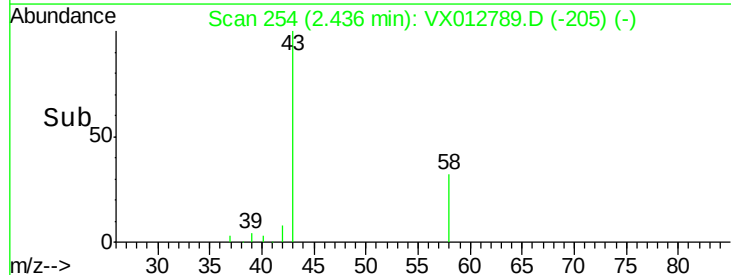
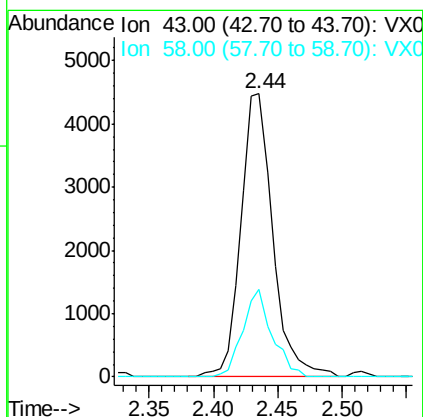
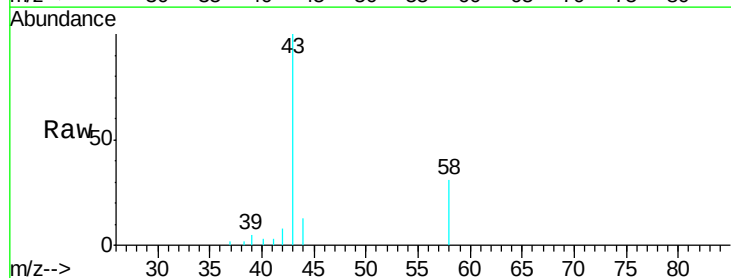
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ163I-20190930

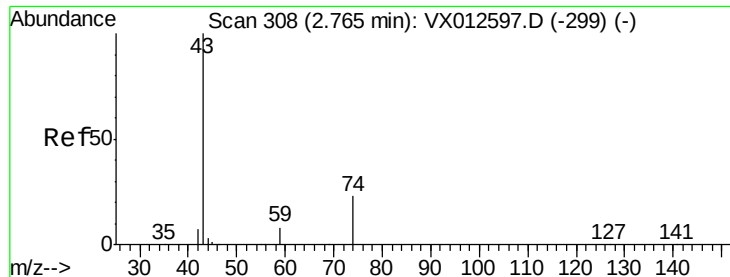
Tgt Ion: 41 Resp: 3479
 Ion Ratio Lower Upper
 41 100
 39 84.8 51.3 76.9#
 76 0.0 22.6 33.8#



#16
 Acetone
 Concen: 5.885 ug/l
 RT: 2.44 min Scan# 254
 Delta R.T. 0.00 min
 Lab File: VX012789.D
 Acq: 03 Oct 2019 17:23

Tgt Ion: 43 Resp: 7667
 Ion Ratio Lower Upper
 43 100
 58 31.1 23.3 34.9

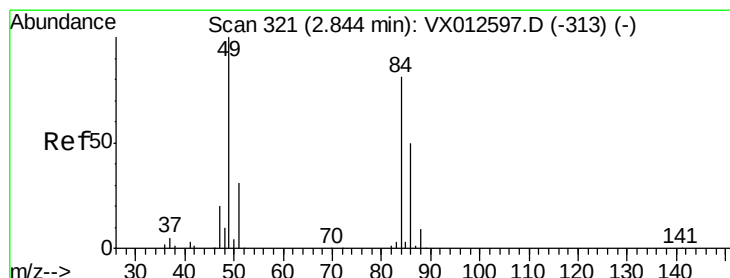
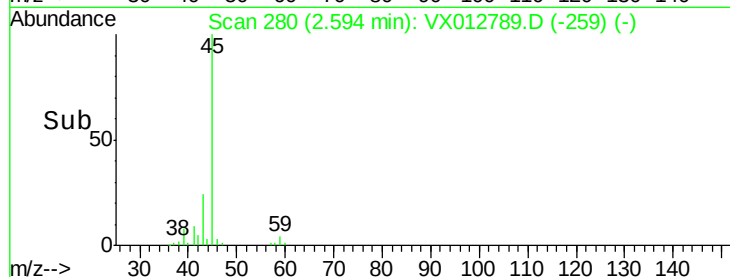
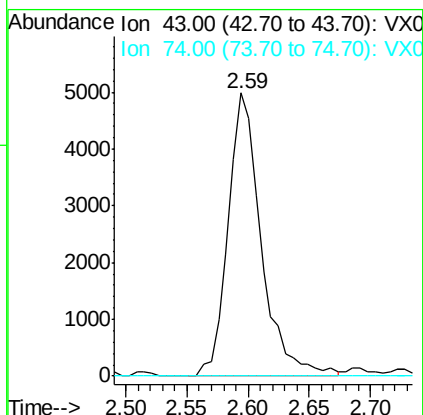
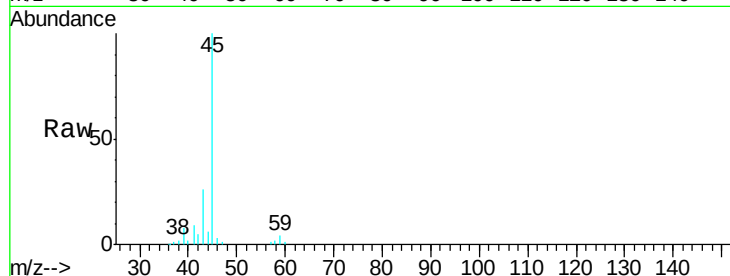




#18
Methyl Acetate
Concen: 3.043 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.17 min
Lab File: VX012789.D
Acq: 03 Oct 2019 17:23

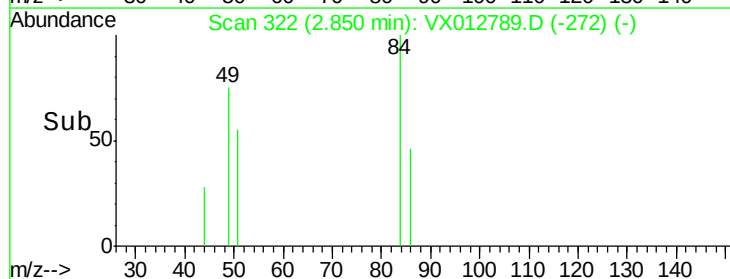
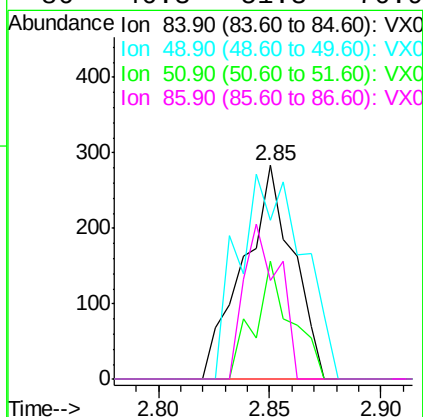
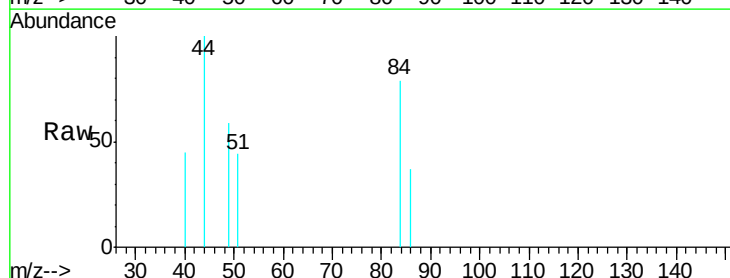
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ163I-20190930

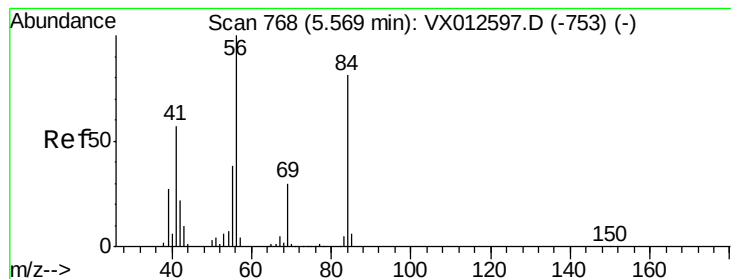
Tgt Ion: 43 Resp: 9334
Ion Ratio Lower Upper
43 100
74 0.0 17.7 26.5#



#20
Methylene Chloride
Concen: 0.200 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX012789.D
Acq: 03 Oct 2019 17:23

Tgt Ion: 84 Resp: 441
Ion Ratio Lower Upper
84 100
49 74.6 106.8 160.2#
51 55.5 32.3 48.5#
86 46.3 51.3 76.9#





#31

Cyclohexane

Concen: 1.134 ug/l

RT: 5.66 min Scan# 783

Delta R.T. 0.09 min

Lab File: VX012789.D

Acq: 03 Oct 2019 17:23

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ163I-20190930

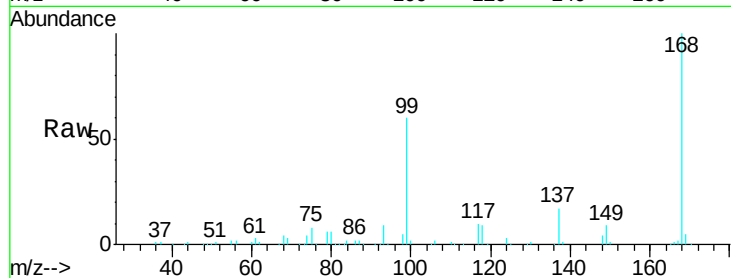
Tgt Ion: 56 Resp: 3882

Ion Ratio Lower Upper

56 100

69 132.8 25.0 37.6#

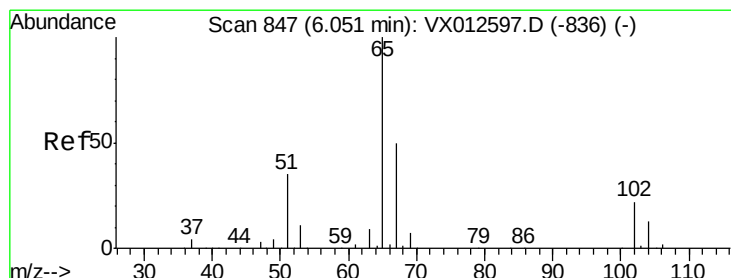
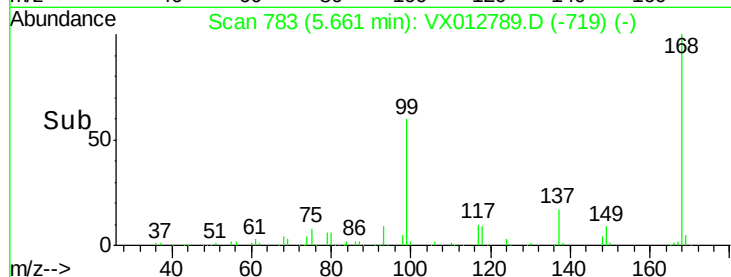
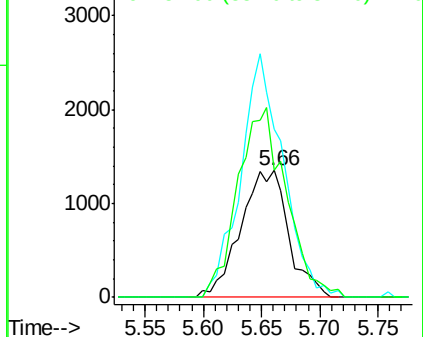
84 100.0 66.4 99.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.160 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012789.D

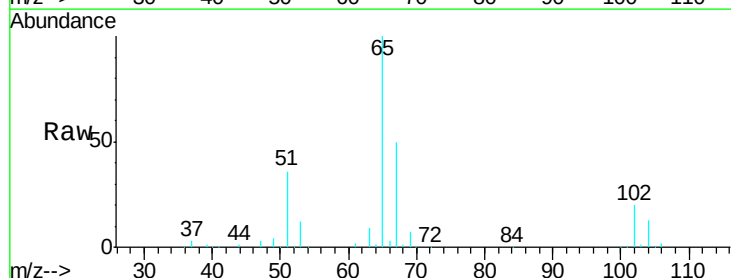
Acq: 03 Oct 2019 17:23

Tgt Ion: 65 Resp: 118445

Ion Ratio Lower Upper

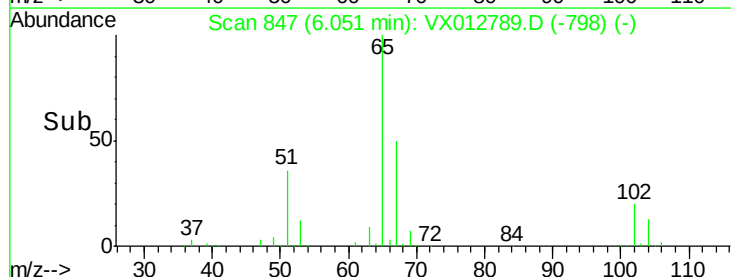
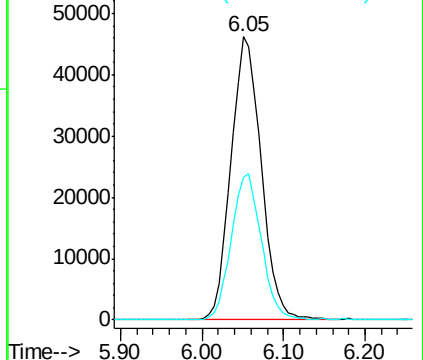
65 100

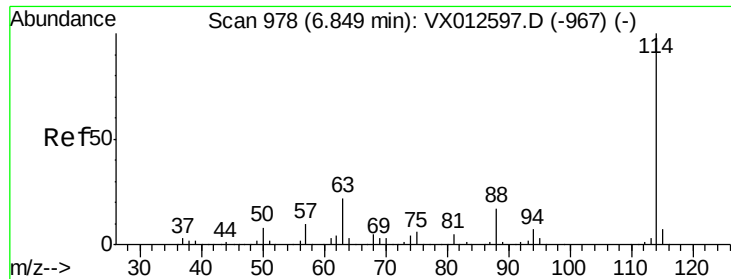
67 51.1 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

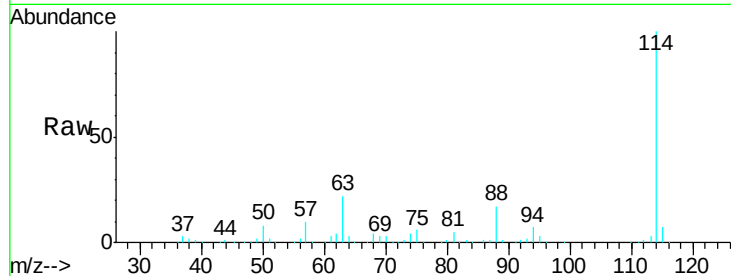




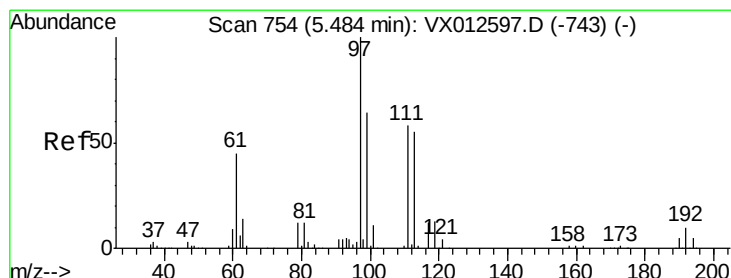
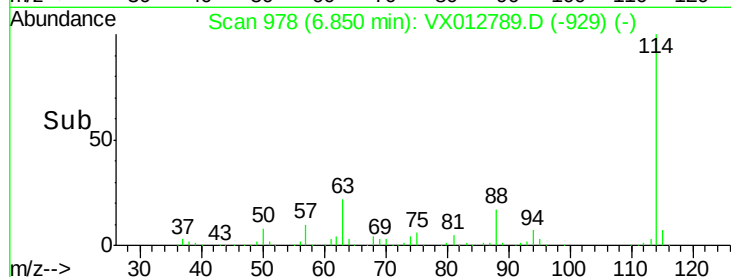
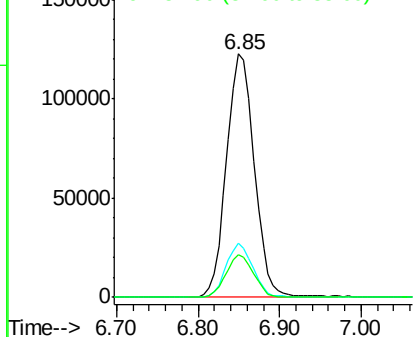
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012789.D
 Acq: 03 Oct 2019 17:23

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ163I-20190930

Tgt Ion:114 Resp: 289588
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 43.2
 88 17.3 0.0 33.2

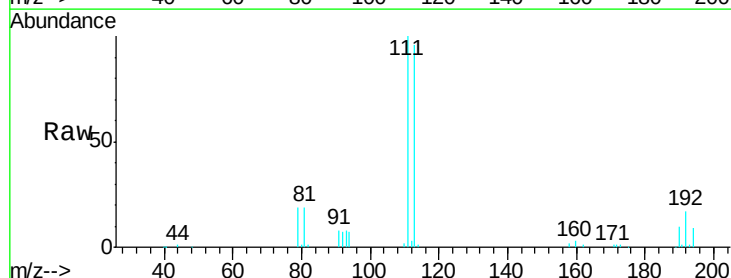


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

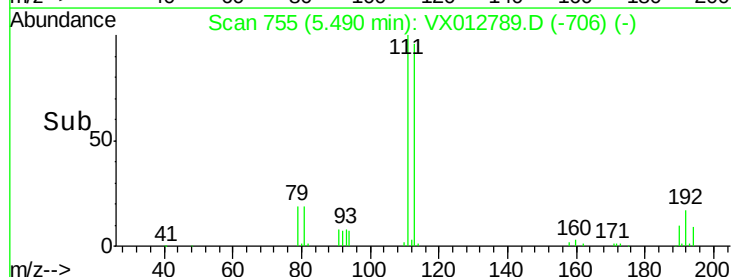
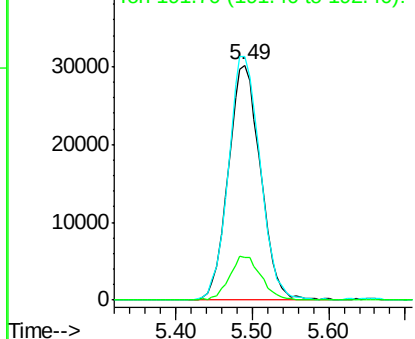


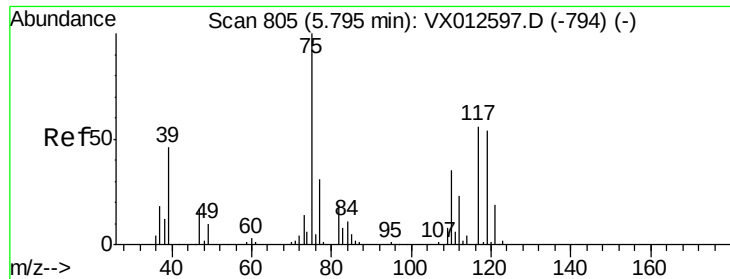
#35
 Dibromofluoromethane
 Concen: 50.978 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012789.D
 Acq: 03 Oct 2019 17:23

Tgt Ion:113 Resp: 87917
 Ion Ratio Lower Upper
 113 100
 111 102.5 83.4 125.2
 192 18.1 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

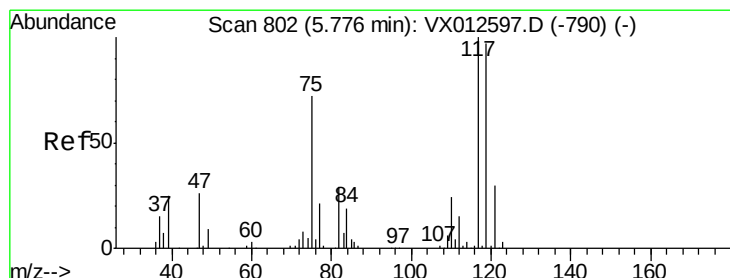
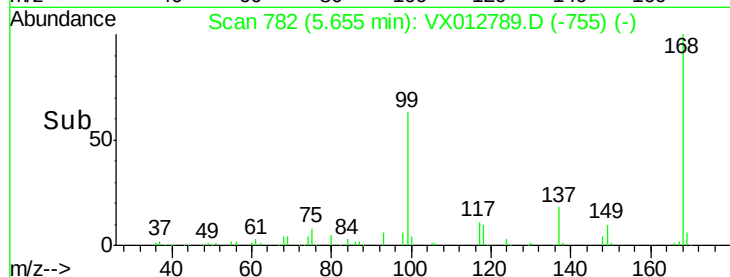
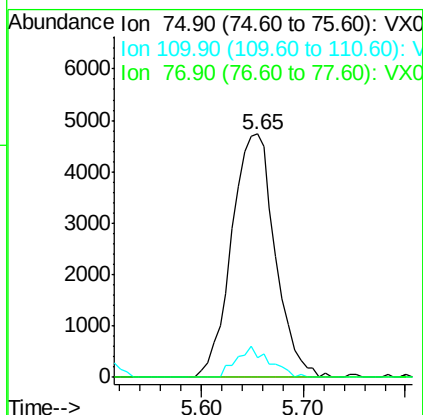
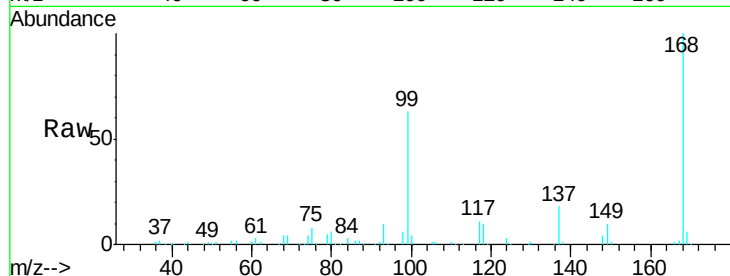




#36
 1,1-Dichloropropene
 Concen: 4.997 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX012789.D
 Acq: 03 Oct 2019 17:23

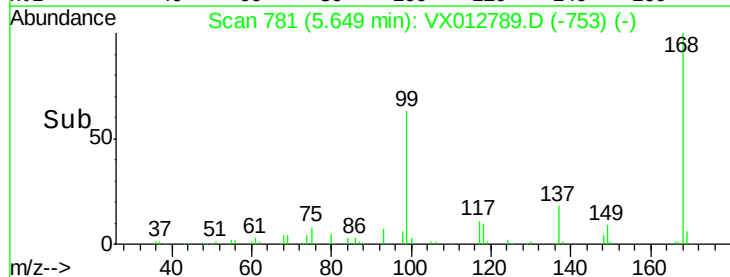
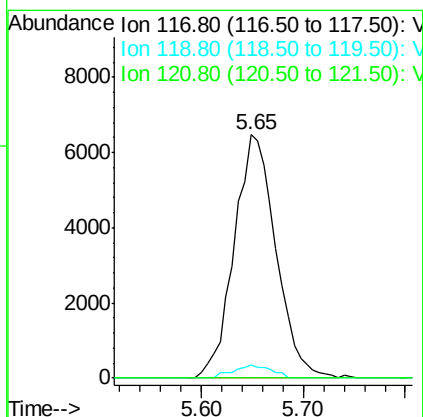
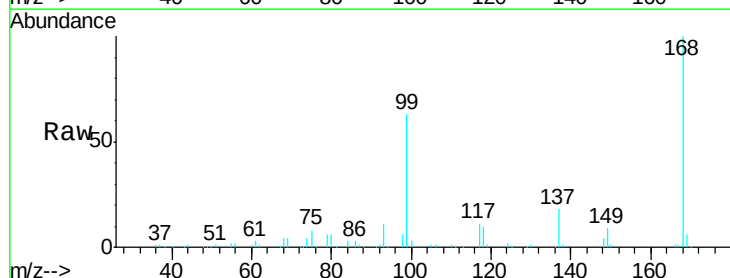
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ163I-20190930

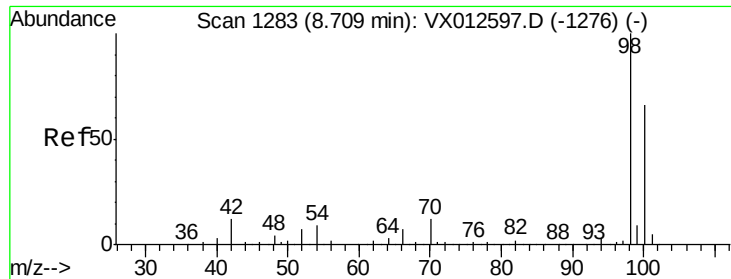
Tgt Ion: 75 Resp: 13947
 Ion Ratio Lower Upper
 75 100
 110 9.6 16.7 50.0#
 77 0.0 24.2 36.2#



#38
 Carbon Tetrachloride
 Concen: 6.481 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX012789.D
 Acq: 03 Oct 2019 17:23

Tgt Ion: 117 Resp: 18377
 Ion Ratio Lower Upper
 117 100
 119 5.6 75.7 113.5#
 121 0.0 24.2 36.4#

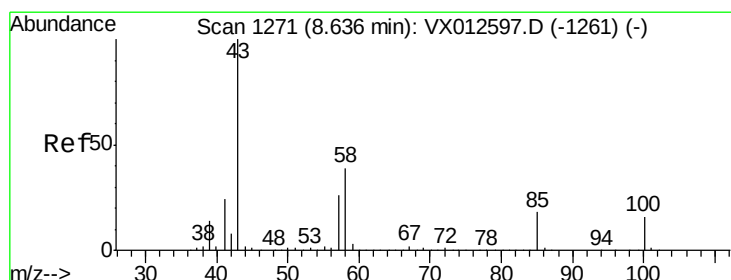
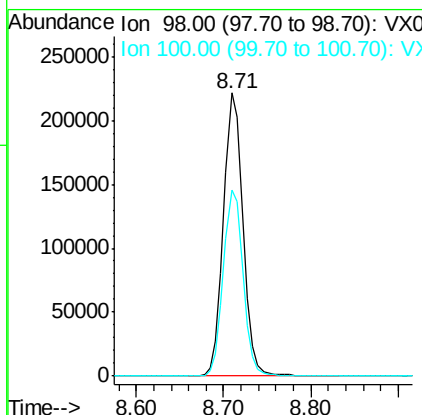
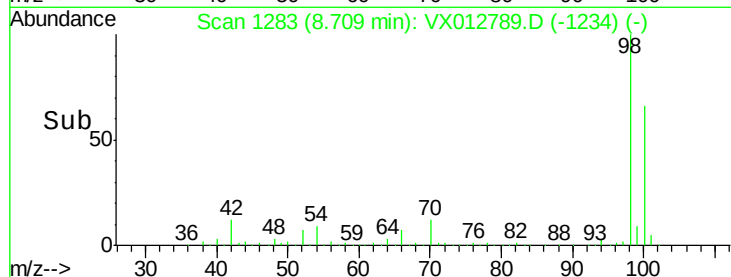
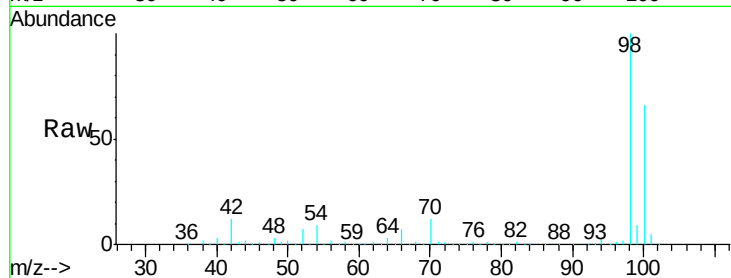




#50
Toluene-d8
Concen: 51.682 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012789.D
Acq: 03 Oct 2019 17:23

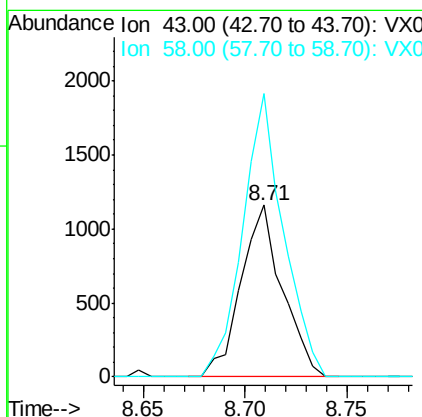
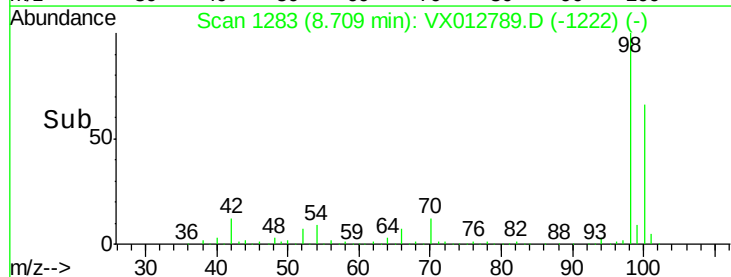
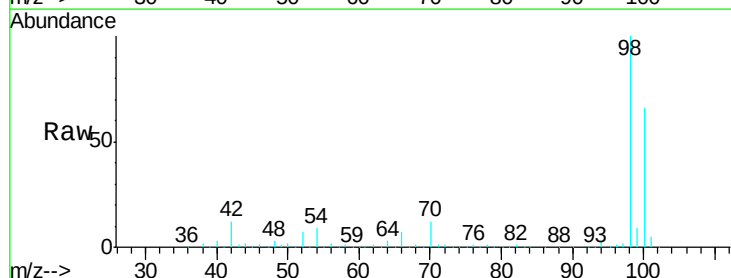
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ163I-20190930

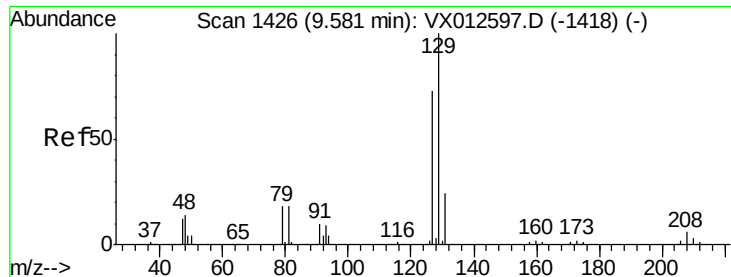
Tgt Ion: 98 Resp: 343250
Ion Ratio Lower Upper
98 100
100 66.5 53.4 80.2



#51
4-Methyl-2-Pentanone
Concen: 0.486 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.07 min
Lab File: VX012789.D
Acq: 03 Oct 2019 17:23

Tgt Ion: 43 Resp: 1638
Ion Ratio Lower Upper
43 100
58 162.3 29.8 44.6#





#60

Dibromochloromethane

Concen: 1.506 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX012789.D

Acq: 03 Oct 2019 17:23

Instrument :

MSVOA_X

ClientSampleId :

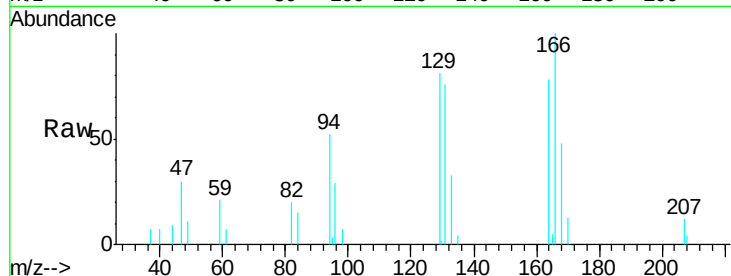
SA-PZ163I-20190930

Tgt Ion:129 Resp: 3129

Ion Ratio Lower Upper

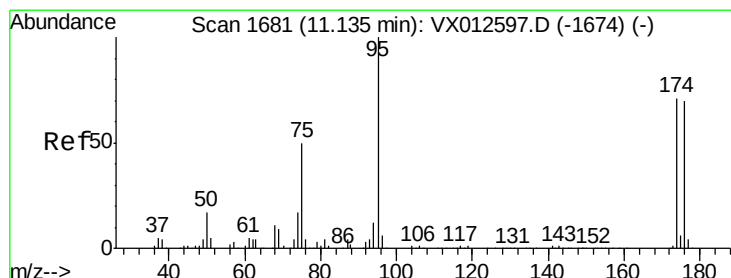
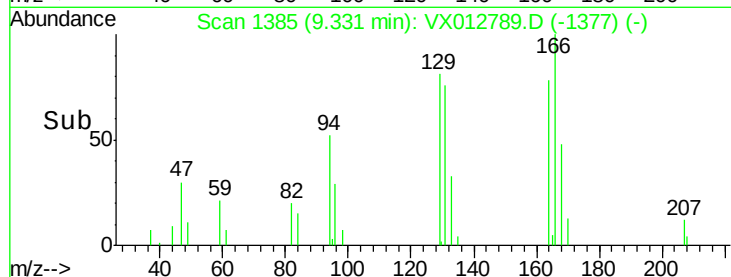
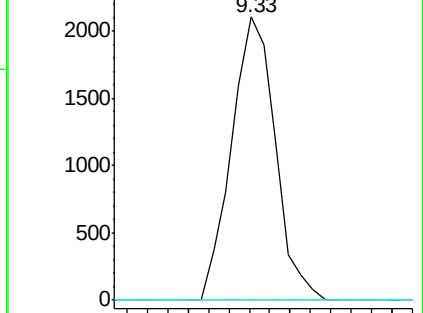
129 100

127 0.0 38.9 116.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 40.631 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012789.D

Acq: 03 Oct 2019 17:23

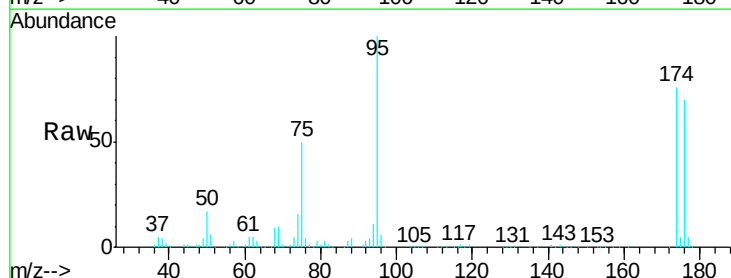
Tgt Ion: 95 Resp: 106107

Ion Ratio Lower Upper

95 100

174 71.7 0.0 140.0

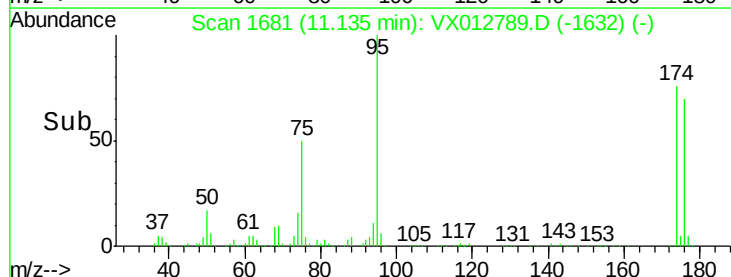
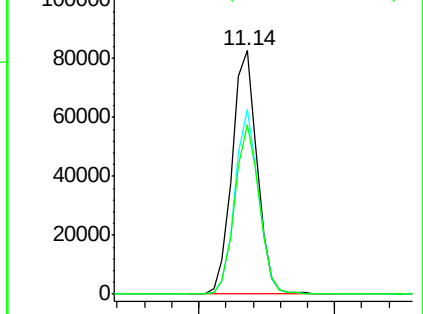
176 68.5 0.0 135.4

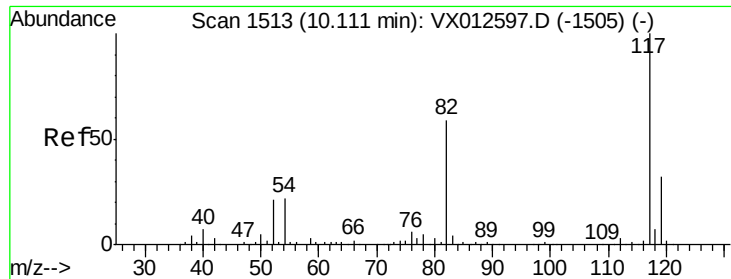


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

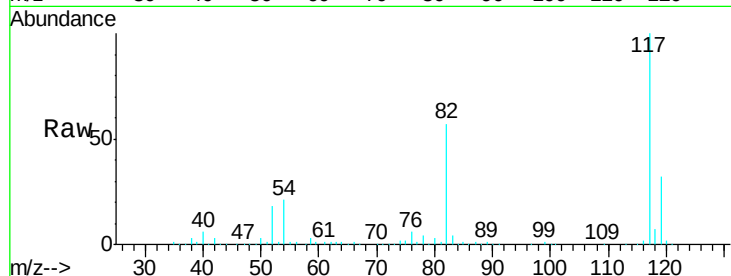




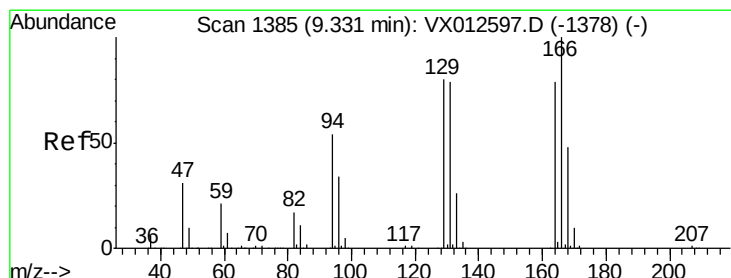
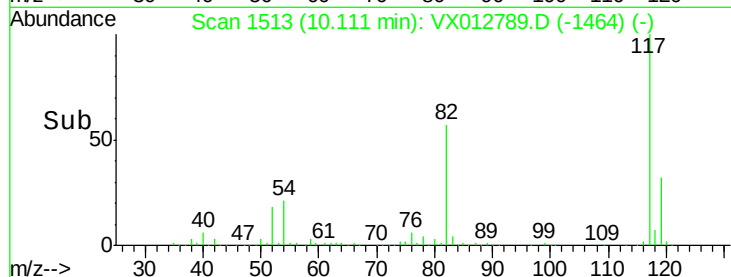
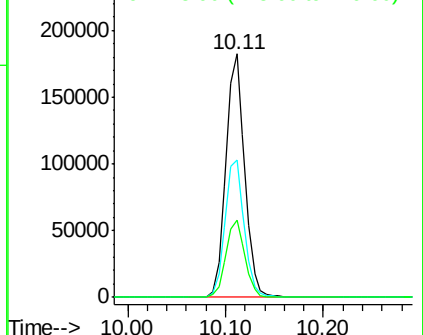
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012789.D
Acq: 03 Oct 2019 17:23

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ163I-20190930

Tgt Ion:117 Resp: 243119
Ion Ratio Lower Upper
117 100
82 56.6 45.9 68.9
119 31.6 25.3 37.9



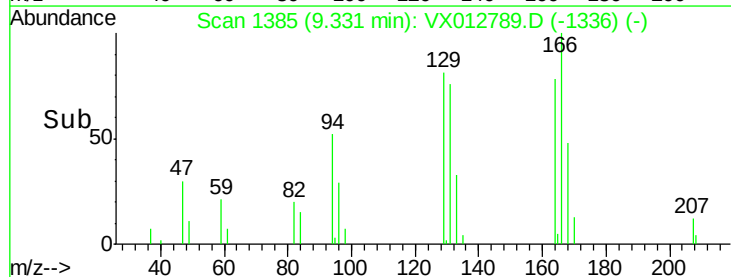
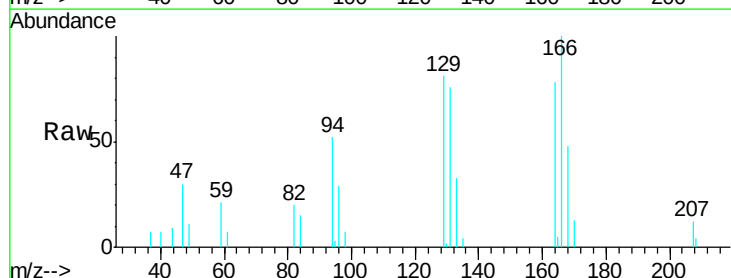
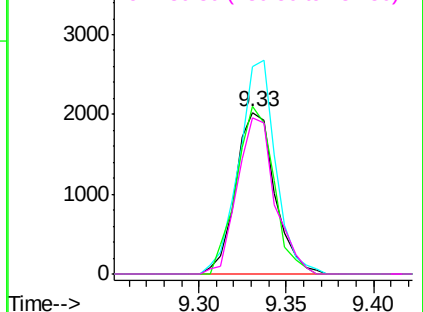
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

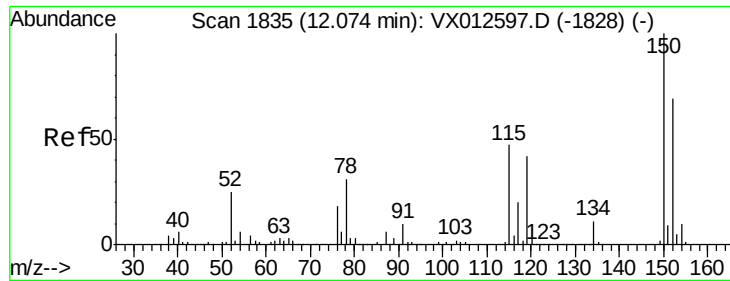


#64
Tetrachloroethene
Concen: 1.862 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX012789.D
Acq: 03 Oct 2019 17:23

Tgt Ion:164 Resp: 3156
Ion Ratio Lower Upper
164 100
166 128.1 107.8 161.6
129 103.7 86.2 129.2
131 96.8 80.4 120.6

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012789.D

Acq: 03 Oct 2019 17:23

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ163I-20190930

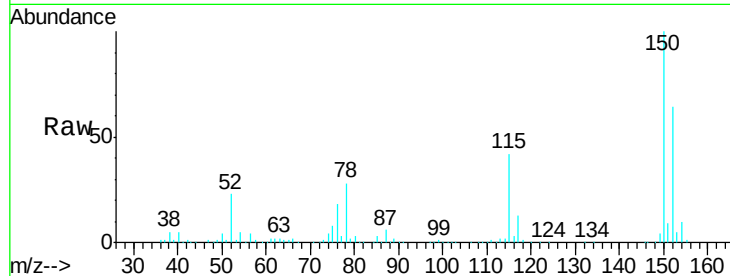
Tgt Ion:152 Resp: 81463

Ion Ratio Lower Upper

152 100

115 64.1 44.1 132.3

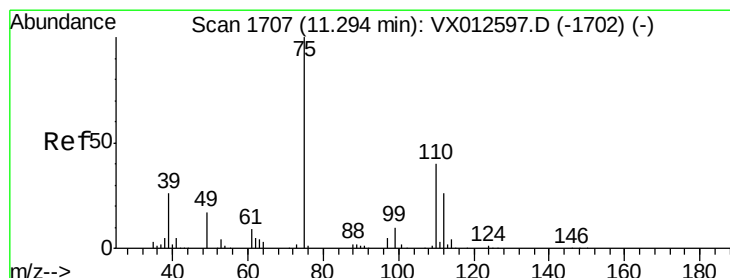
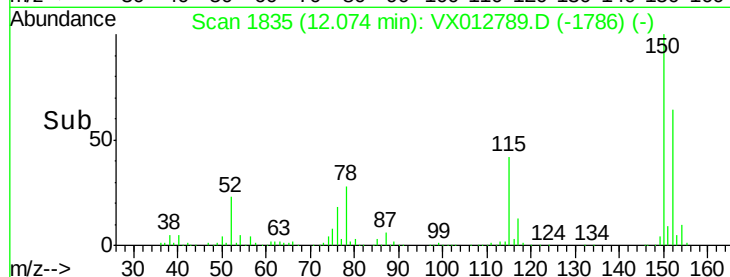
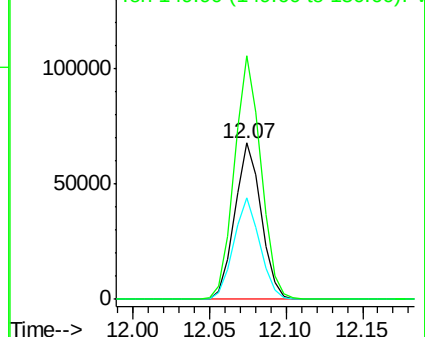
150 155.5 0.0 343.8



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: 25.154 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012789.D

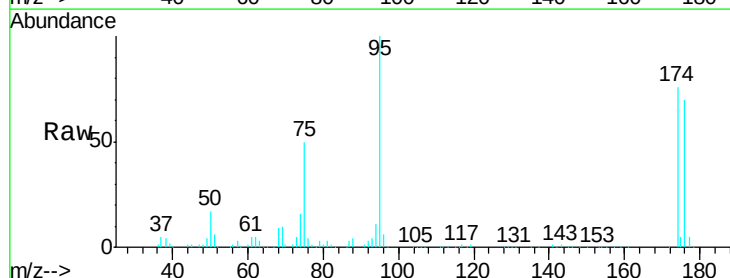
Acq: 03 Oct 2019 17:23

Tgt Ion: 75 Resp: 54205

Ion Ratio Lower Upper

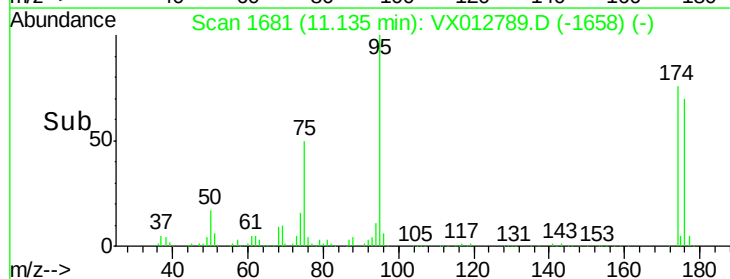
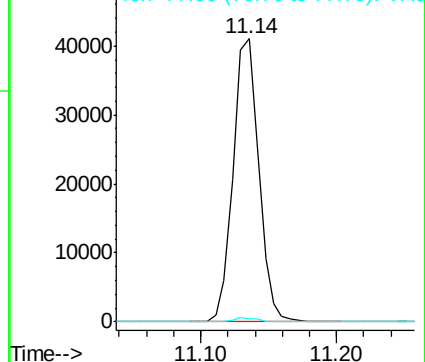
75 100

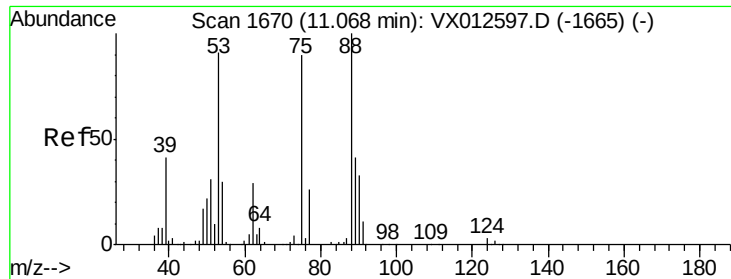
77 1.3 19.7 59.0#



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: 72.087 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012789.D

Acq: 03 Oct 2019 17:23

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ163I-20190930

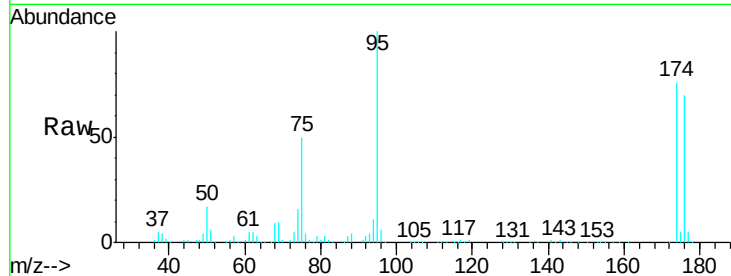
Tgt Ion: 75 Resp: 54205

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

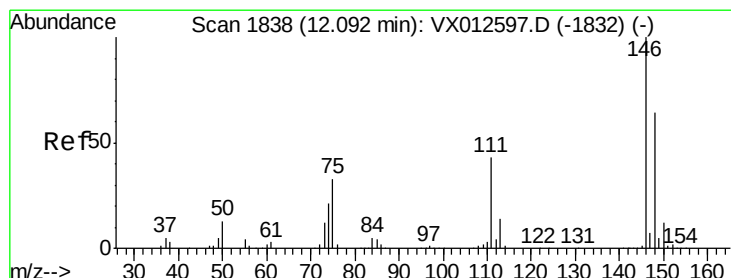
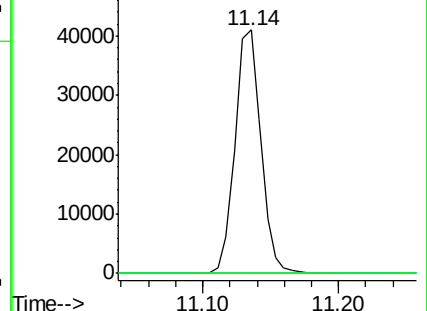
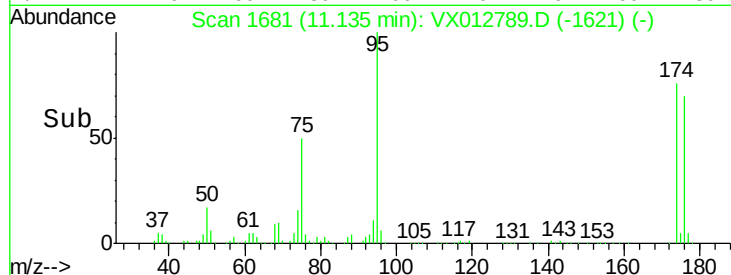
89 0.1 36.3 54.5#



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



#88

1,4-Dichlorobenzene

Concen: 0.352 ug/l

RT: 12.09 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VX012789.D

Acq: 03 Oct 2019 17:23

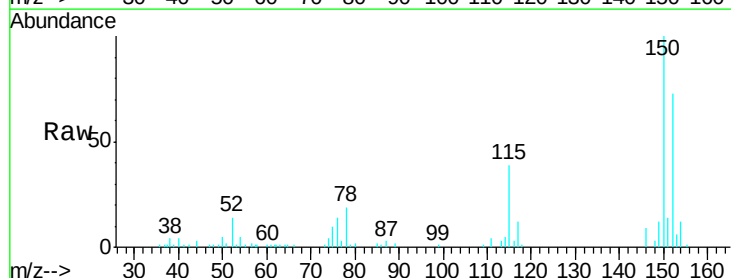
Tgt Ion: 146 Resp: 961

Ion Ratio Lower Upper

146 100

111 0.0 21.1 63.3#

148 72.4 32.1 96.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

