

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080519\
 Data File : VX011333.D
 Acq On : 05 Aug 2019 18:00
 Operator : JC/SP
 Sample : K4130-35
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 06 02:40:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

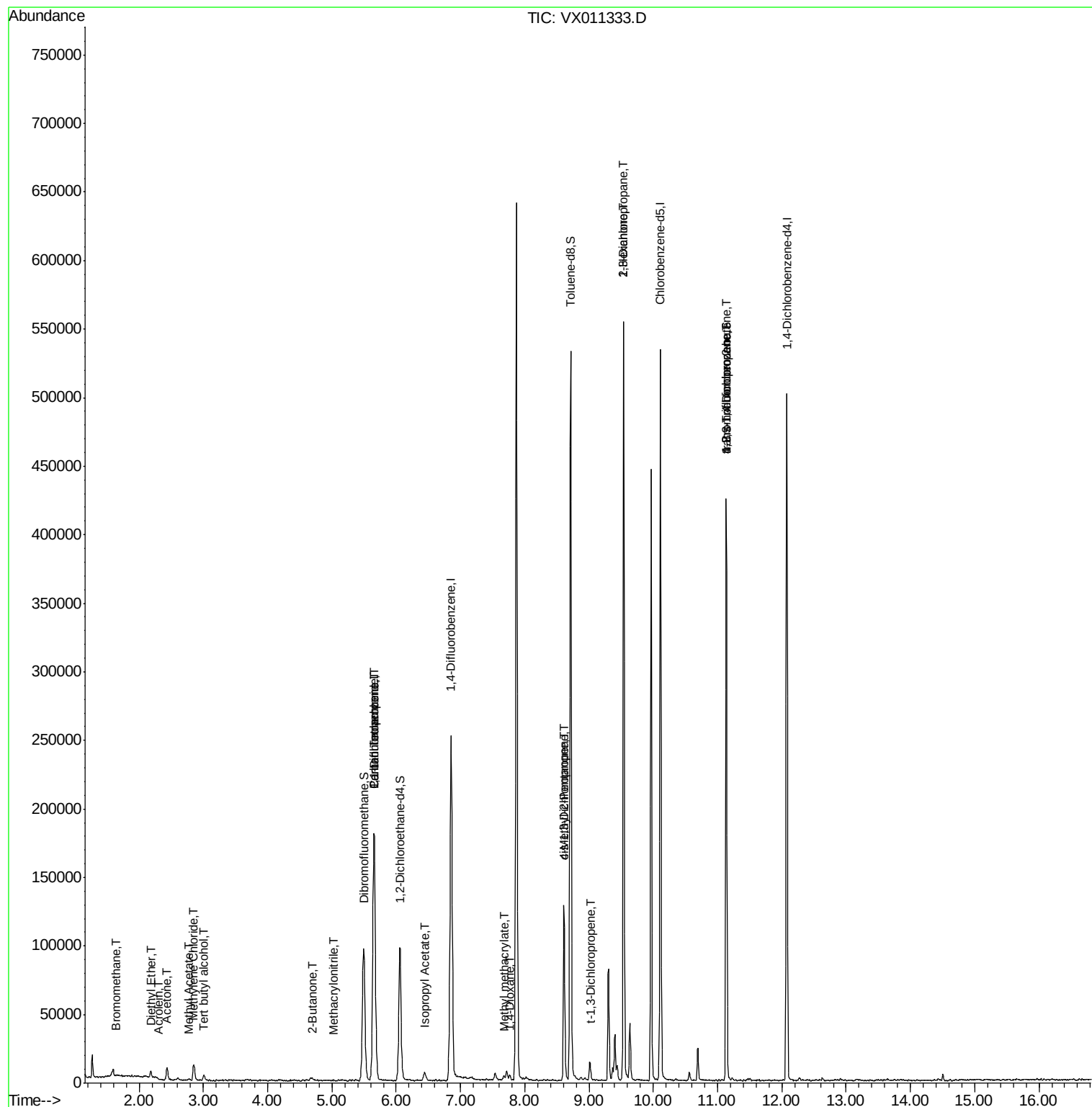
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	182037	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	264922	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	245432	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	111286	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	89396	48.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.52%	
35) Dibromofluoromethane	5.49	113	79949	46.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.44%	
50) Toluene-d8	8.71	98	315760	48.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.72%	
62) 4-Bromofluorobenzene	11.13	95	102912	44.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.30%	
Target Compounds				Qvalue		
5) Bromomethane	1.64	94	540	0.436	ug/l #	59
6) Chloroethane	1.73	64	262	Below Cal	#	57
8) Diethyl Ether	2.18	74	1802	1.634	ug/l	82
11) Tert butyl alcohol	3.01	59	2100	5.767	ug/l #	84
13) Acrolein	2.30	56	143	0.207	ug/l #	15
16) Acetone	2.43	43	9916	11.364	ug/l	98
18) Methyl Acetate	2.78	43	891	0.447	ug/l	91
20) Methylene Chloride	2.85	84	5903	3.089	ug/l	89
25) 2-Butanone	4.68	43	535	0.431	ug/l #	67
36) 1,1-Dichloropropene	5.66	75	12425	5.372	ug/l #	48
38) Carbon Tetrachloride	5.65	117	16559	7.116	ug/l #	15
41) Methacrylonitrile	5.02	41	365	0.288	ug/l #	16
43) Isopropyl Acetate	6.44	43	8376	2.258	ug/l #	94
48) Methyl methacrylate	7.68	41	3893	2.230	ug/l #	24
49) 1,4-Dioxane	7.76	88	25	0.494	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	41053	17.149	ug/l #	48
53) t-1,3-Dichloropropene	9.03	75	43	2.854	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	20712	8.025	ug/l #	67
57) 1,3-Dichloropropane	9.54	76	4970	1.675	ug/l #	42
59) 2-Hexanone	9.54	43	62361	33.632	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	51221	25.274	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	51221	65.904	ug/l #	10

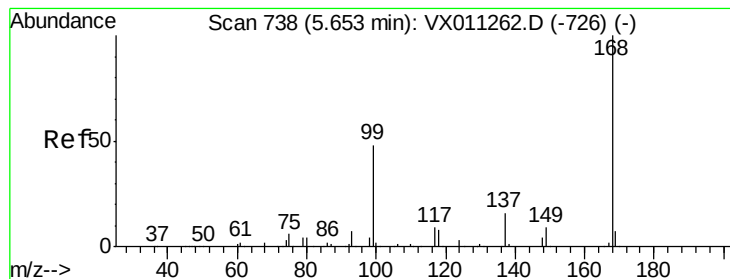
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011333.D

Acq: 05 Aug 2019 18:00

Instrument :

MSVOA_X

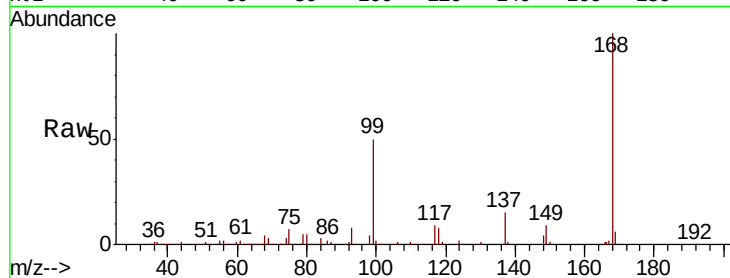
ClientSampled :

Tot Ion:168 Resp: 182037

Ion Ratio Lower Upper

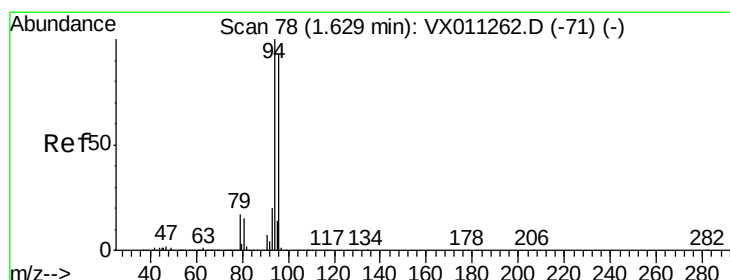
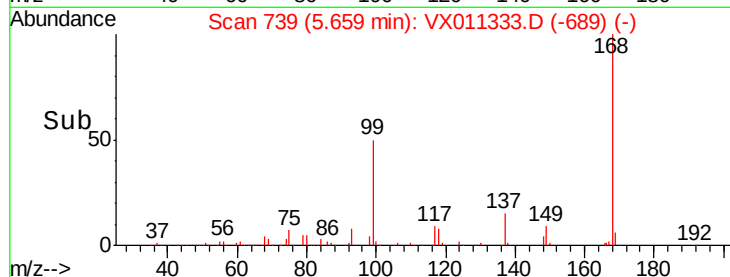
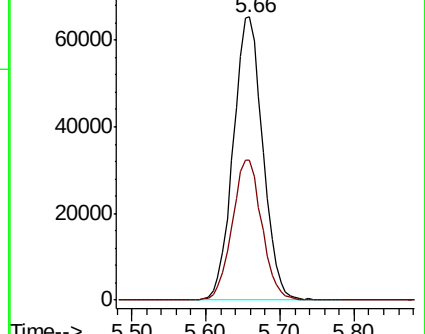
168 100

99 49.6 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.436 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX011333.D

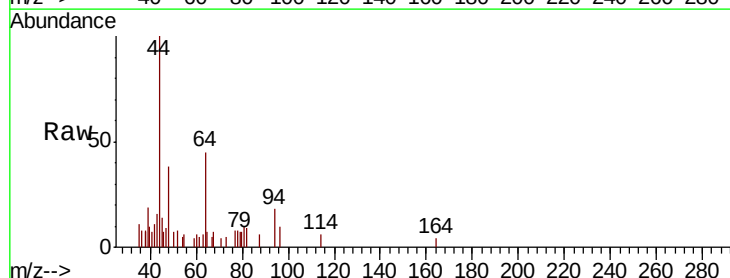
Acq: 05 Aug 2019 18:00

Tgt Ion: 94 Resp: 540

Ion Ratio Lower Upper

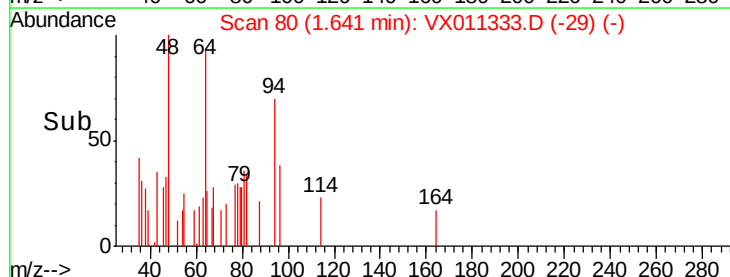
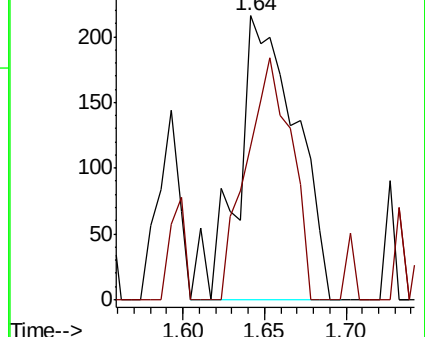
94 100

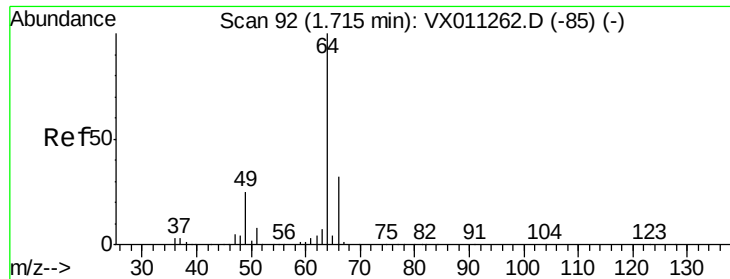
96 54.2 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX011333.D

Acq: 05 Aug 2019 18:00

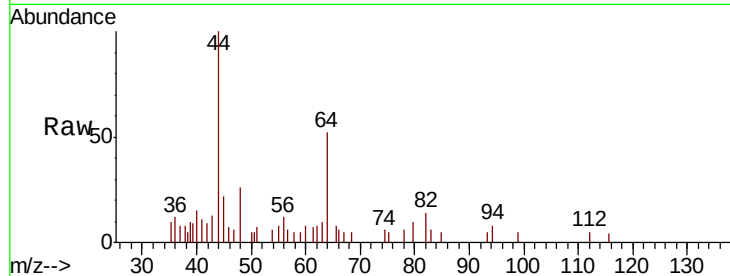
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 64 Resp: 262

Ion Ratio Lower Upper

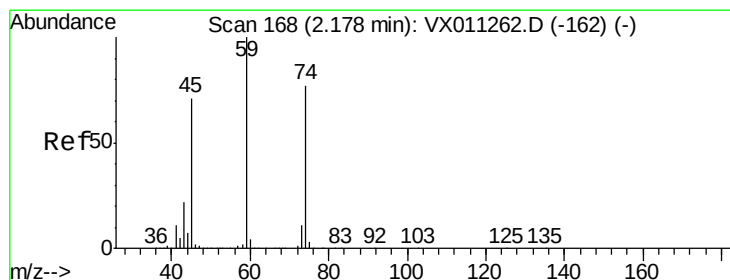
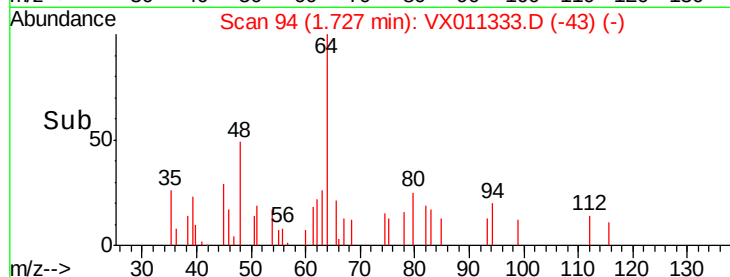
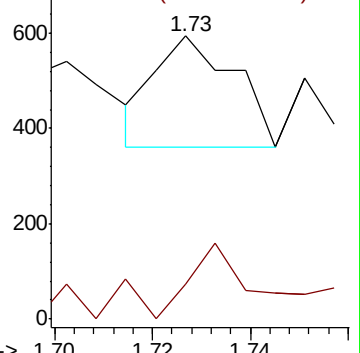
64 100

66 7.7 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: 1.634 ug/l

RT: 2.18 min Scan# 168

Delta R.T. -0.00 min

Lab File: VX011333.D

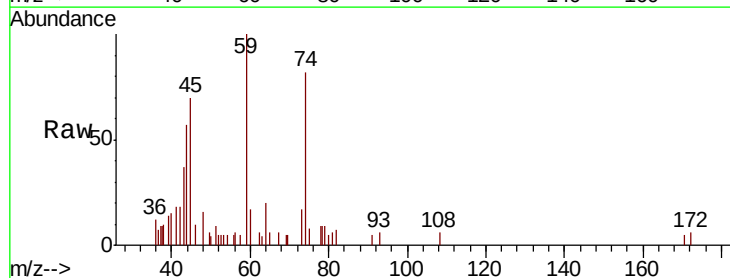
Acq: 05 Aug 2019 18:00

Tgt Ion: 74 Resp: 1802

Ion Ratio Lower Upper

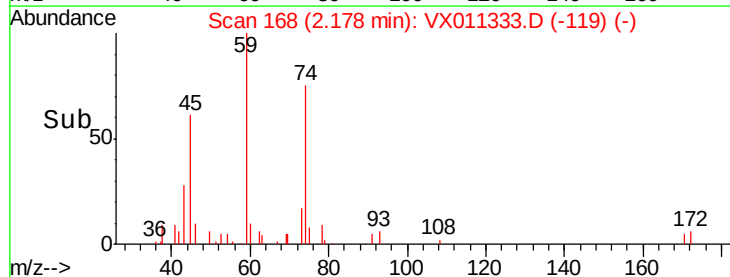
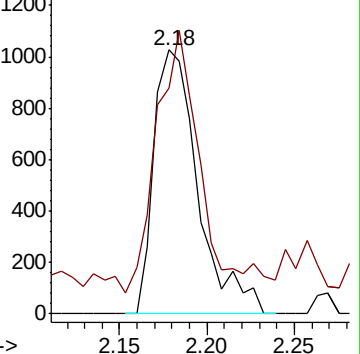
74 100

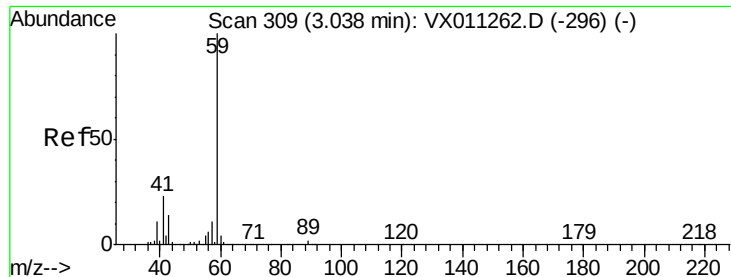
45 109.7 46.1 138.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



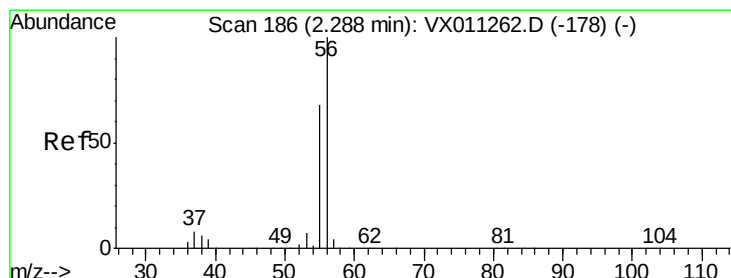
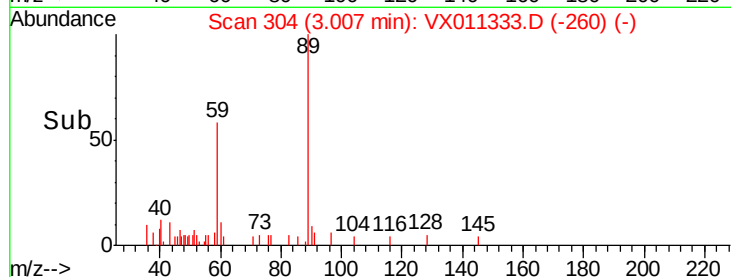
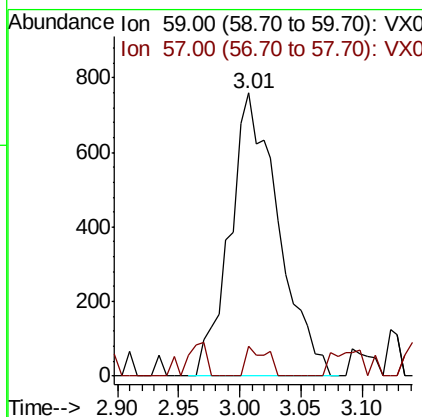
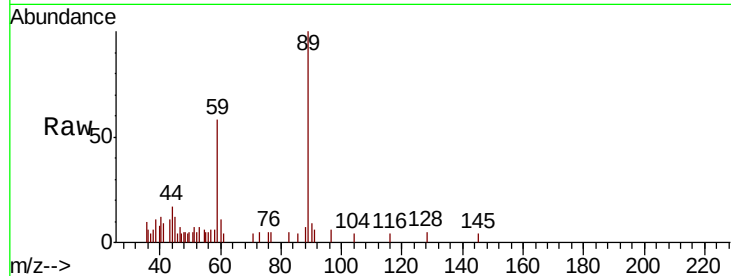


#11

Tert butyl alcohol
Concen: 5.767 ug/l
RT: 3.01 min Scan# 304
Delta R.T. -0.03 min
Lab File: VX011333.D
Acq: 05 Aug 2019 18:00

Instrument :
MSVOA_X
ClientSampleId :

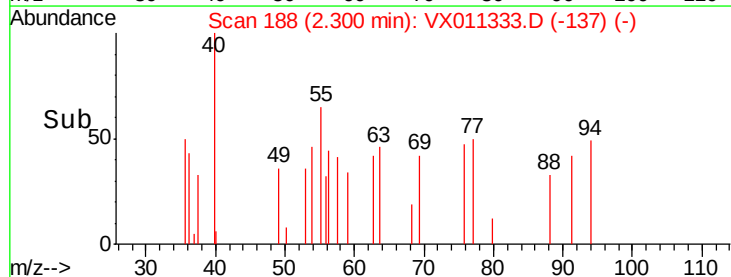
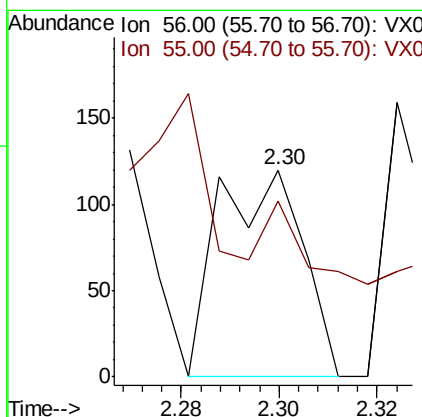
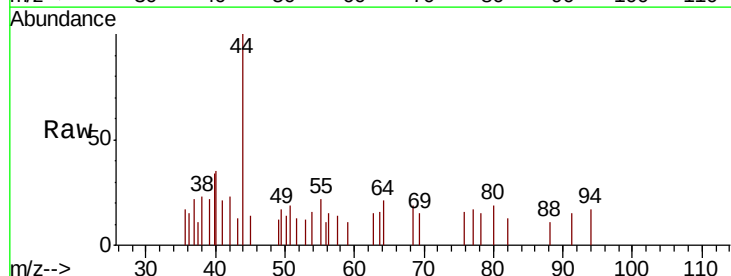
Tot Ion: 59 Resp: 2100
Ion Ratio Lower Upper
59 100
57 4.5 8.3 12.5#

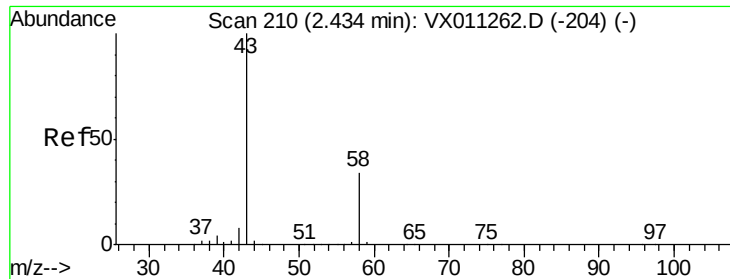


#13

Acrolein
Concen: 0.207 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX011333.D
Acq: 05 Aug 2019 18:00

Tgt Ion: 56 Resp: 143
Ion Ratio Lower Upper
56 100
55 0.0 56.0 84.0#





#16

Acetone

Concen: 11.364 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011333.D

Acq: 05 Aug 2019 18:00

Instrument :

MSVOA_X

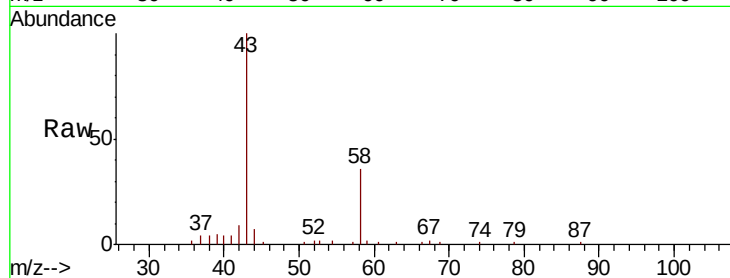
ClientSampleId :

Tot Ion: 43 Resp: 9916

Ion Ratio Lower Upper

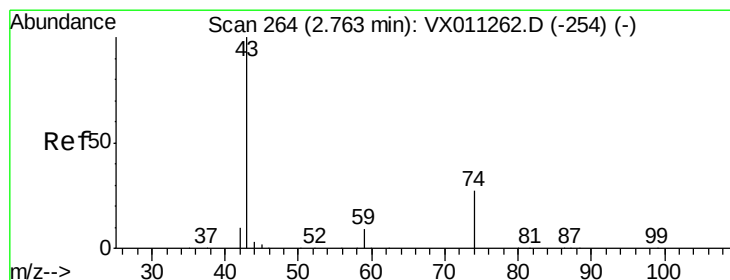
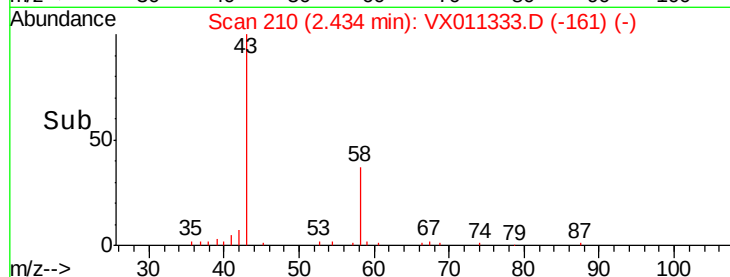
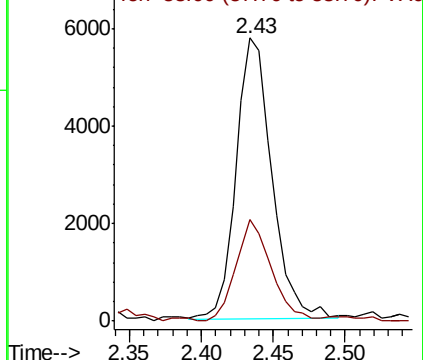
43 100

58 35.4 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.447 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX011333.D

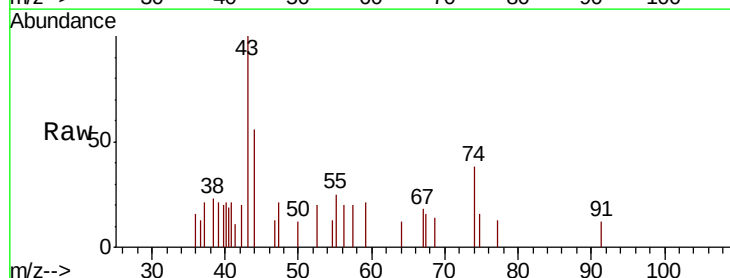
Acq: 05 Aug 2019 18:00

Tgt Ion: 43 Resp: 891

Ion Ratio Lower Upper

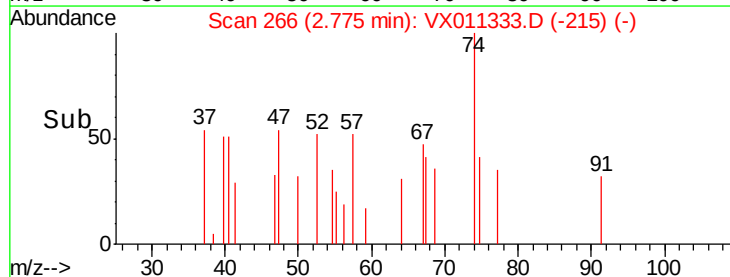
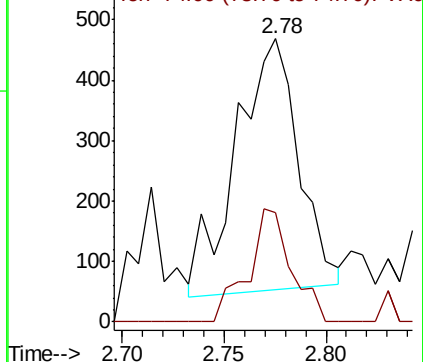
43 100

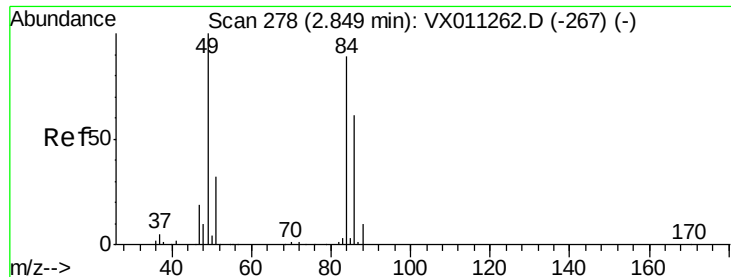
74 31.1 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

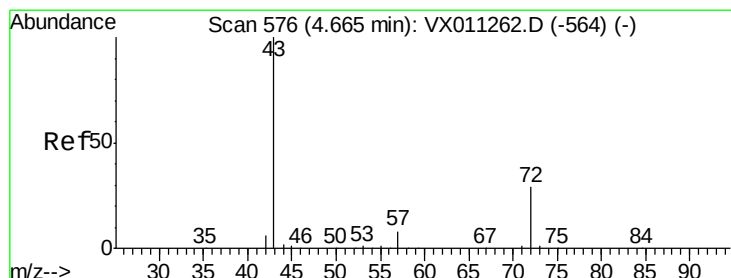
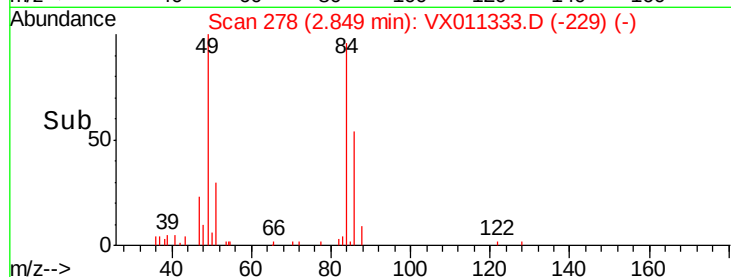
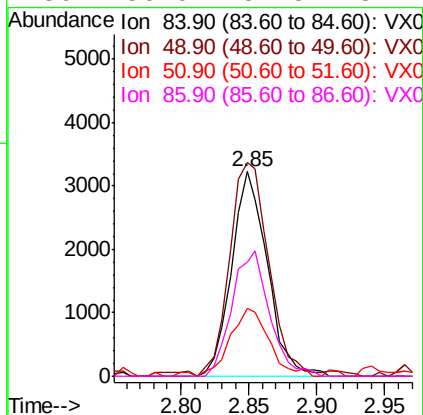
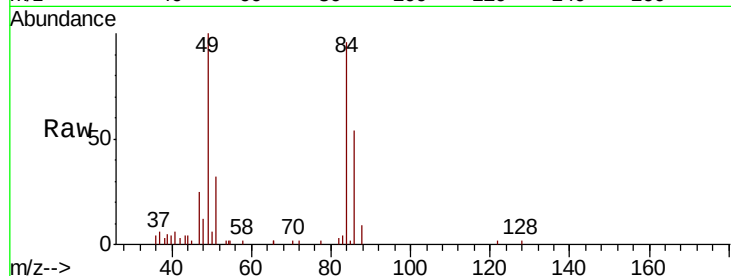




#20
Methvlene Chloride
Concen: 3.089 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.00 min
Lab File: VX011333.D
Acq: 05 Aug 2019 18:00

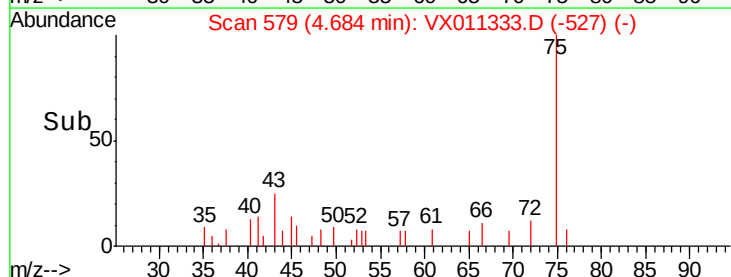
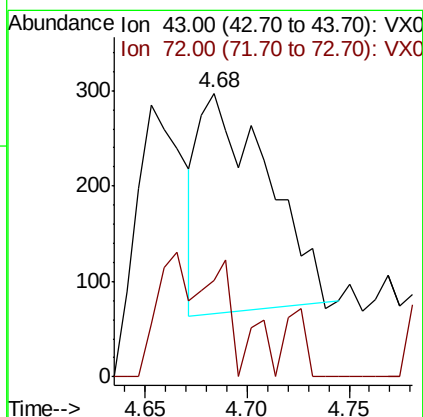
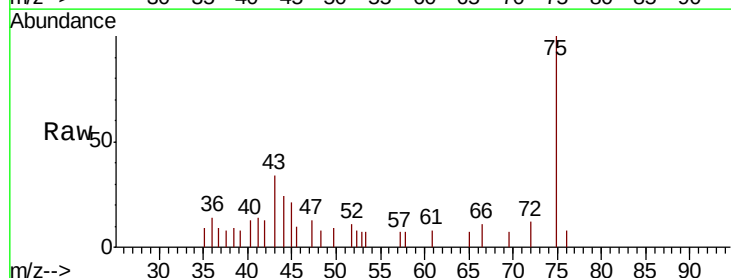
Instrument :
MSVOA_X
ClientSampleId :

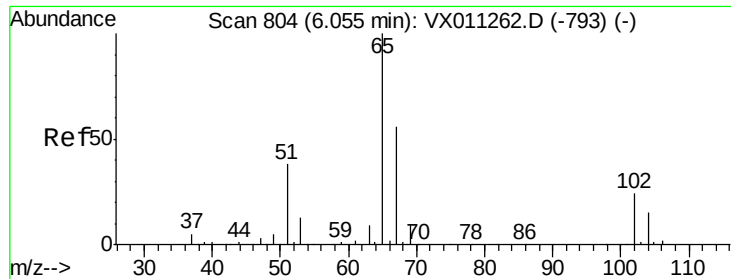
Tot Ion:	84	Resp:	5903
Ion	Ratio	Lower	Upper
84	100		
49	102.2	89.3	133.9
51	30.5	28.3	42.5
86	56.0	54.5	81.7



#25
2-Butanone
Concen: 0.431 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.02 min
Lab File: VX011333.D
Acq: 05 Aug 2019 18:00

Tgt Ion:	43	Resp:	535
Ion	Ratio	Lower	Upper
43	100		
72	46.5	23.2	34.8#

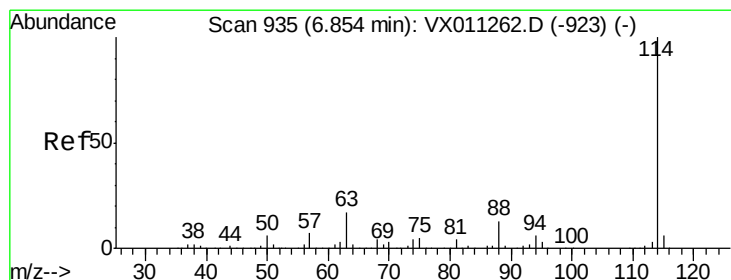
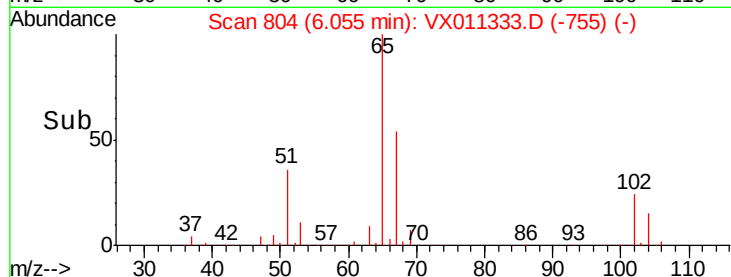
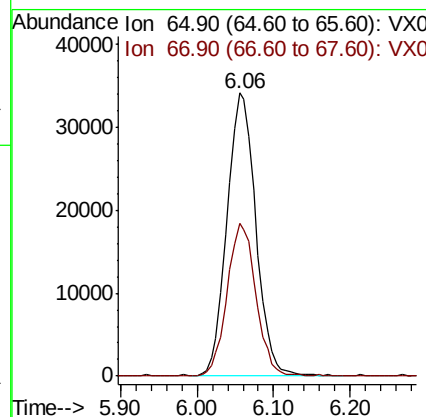
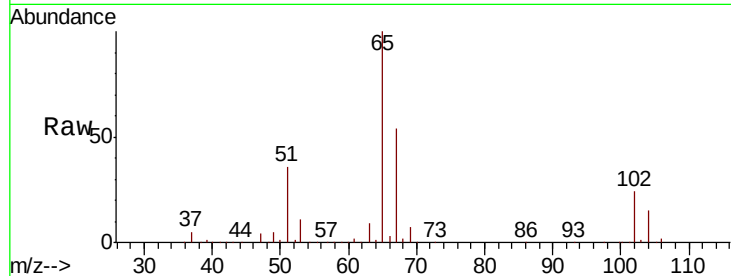




#33
 1,2-Dichloroethane-d4
 Concen: 48.765 ug/l
 RT: 6.06 min Scan# 804
 Delta R.T. -0.00 min
 Lab File: VX011333.D
 Acq: 05 Aug 2019 18:00

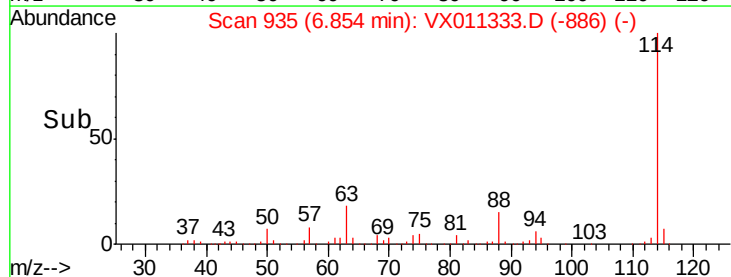
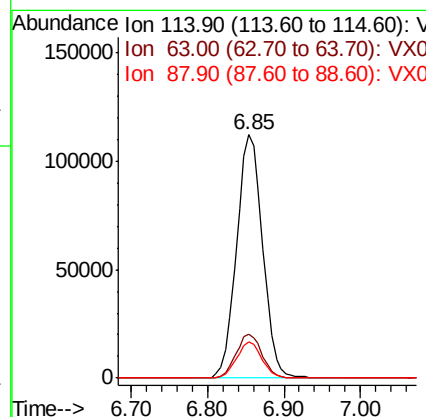
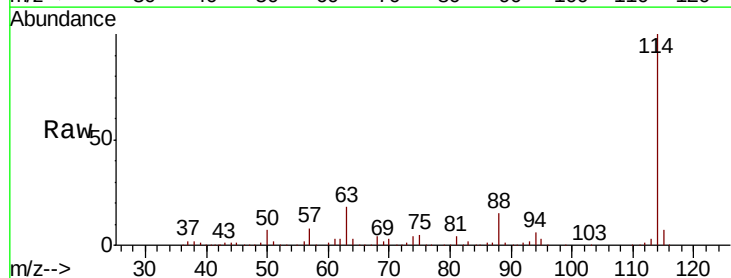
Instrument :
 MSVOA_X
 ClientSampleId :

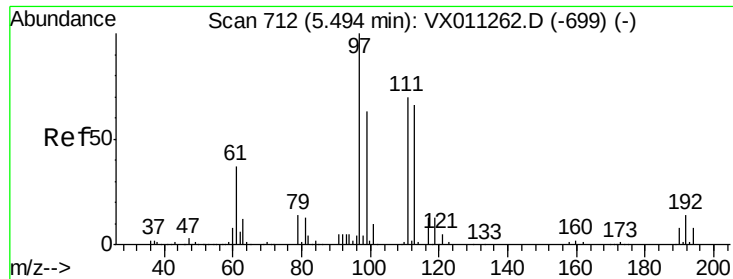
Tot Ion: 65 Resp: 89396
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.00 min
 Lab File: VX011333.D
 Acq: 05 Aug 2019 18:00

Tgt Ion: 114 Resp: 264922
 Ion Ratio Lower Upper
 114 100
 63 17.8 0.0 34.0
 88 14.9 0.0 26.4

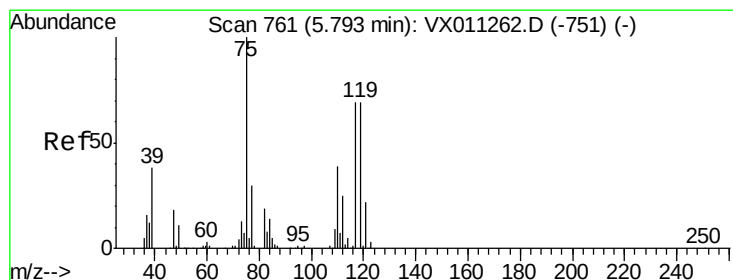
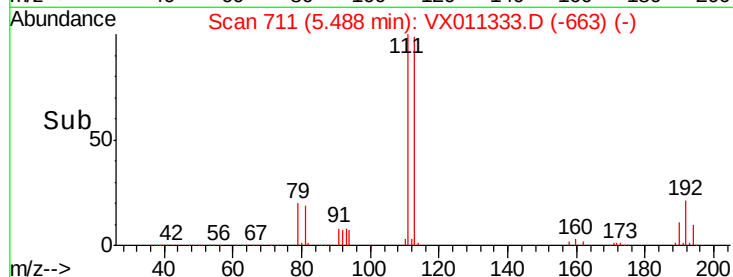
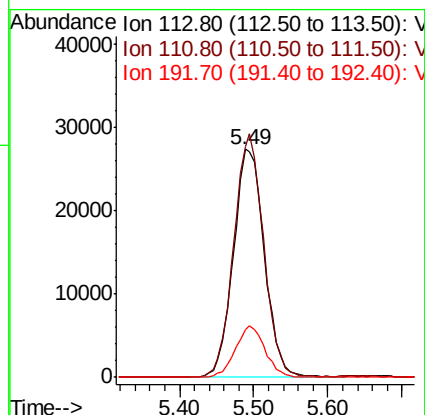
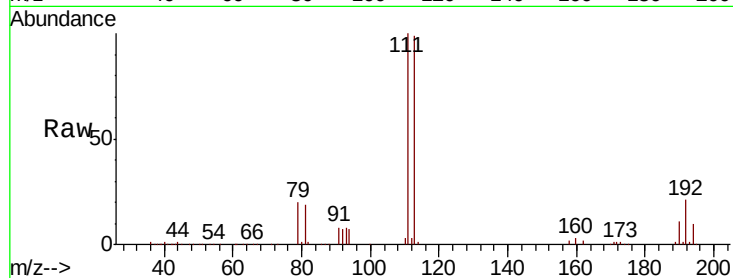




#35
 Dibromofluoromethane
 Concen: 46.224 ug/l
 RT: 5.49 min Scan# 711
 Delta R.T. -0.01 min
 Lab File: VX011333.D
 Acq: 05 Aug 2019 18:00

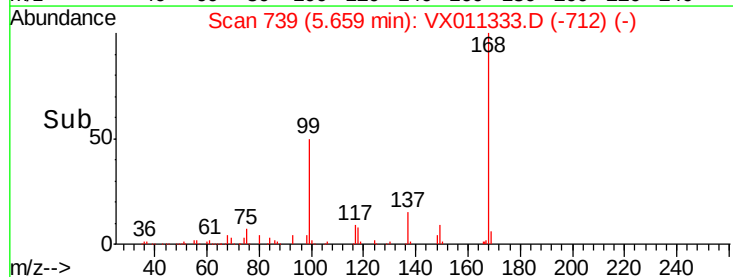
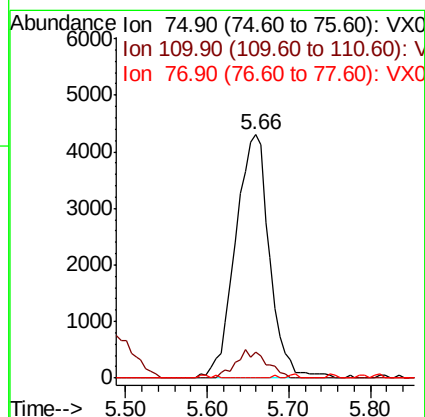
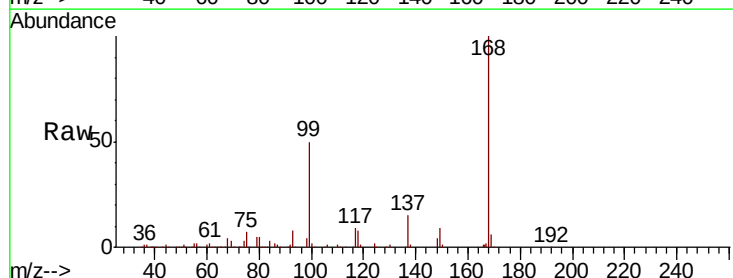
Instrument :
 MSVOA_X
 ClientSampleId :

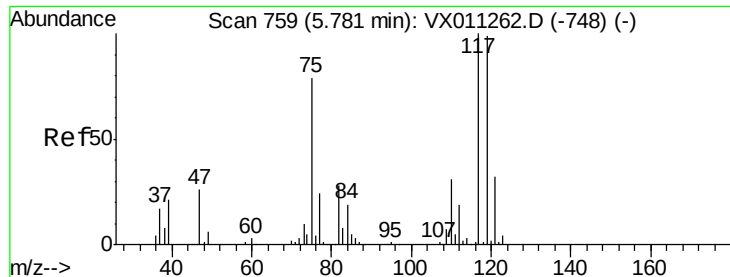
Tot Ion:113 Resp: 79949
 Ion Ratio Lower Upper
 113 100
 111 103.0 81.9 122.9
 192 21.5 17.8 26.8



#36
 1,1-Dichloropropene
 Concen: 5.372 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX011333.D
 Acq: 05 Aug 2019 18:00

Tgt Ion: 75 Resp: 12425
 Ion Ratio Lower Upper
 75 100
 110 10.4 20.0 59.9#
 77 0.0 24.8 37.2#

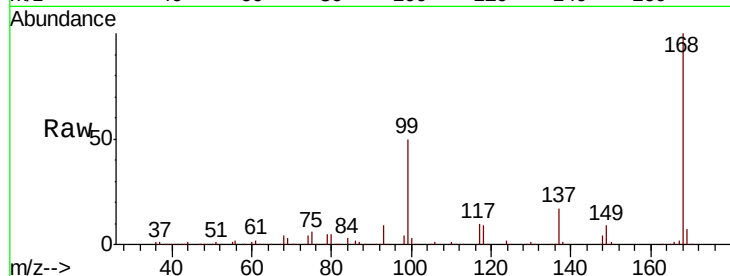




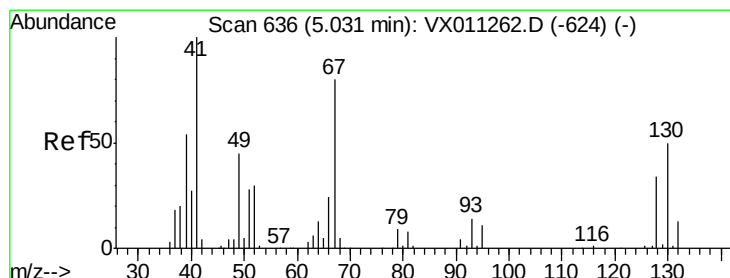
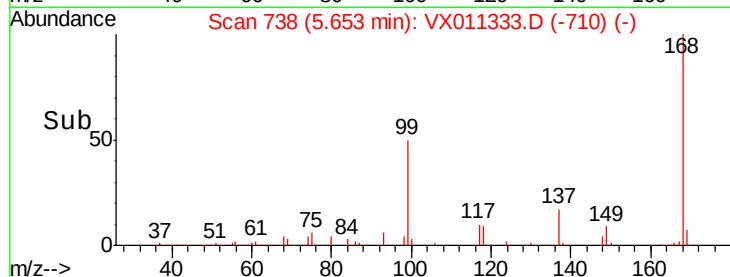
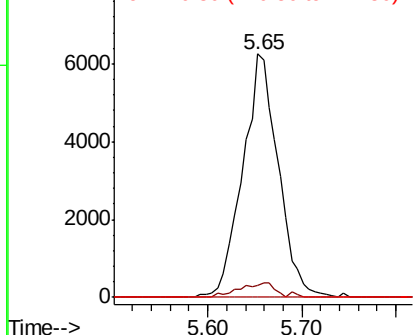
#38
Carbon Tetrachloride
Concen: 7.116 ug/l
RT: 5.65 min Scan# 738
Delta R.T. -0.13 min
Lab File: VX011333.D
Acq: 05 Aug 2019 18:00

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 16559
Ion Ratio Lower Upper
117 100
119 4.8 79.0 118.4#
121 0.0 25.9 38.9#

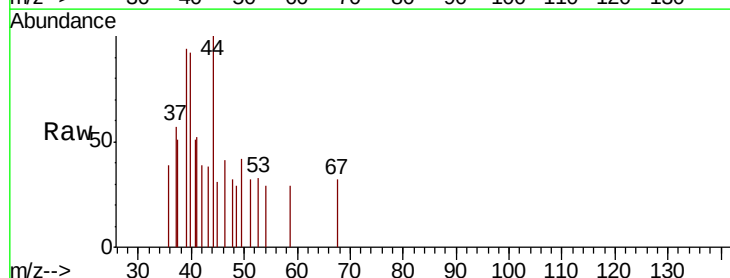


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

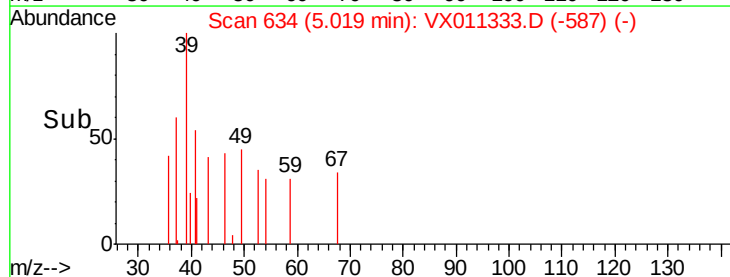
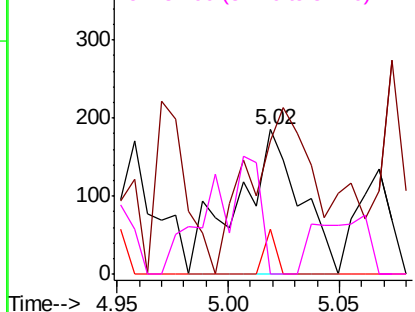


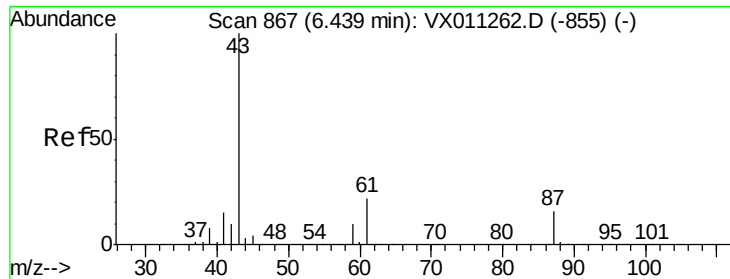
#41
Methacrylonitrile
Concen: 0.288 ug/l
RT: 5.02 min Scan# 634
Delta R.T. -0.01 min
Lab File: VX011333.D
Acq: 05 Aug 2019 18:00

Tgt Ion: 41 Resp: 365
Ion Ratio Lower Upper
41 100
39 121.9 43.0 64.6#
67 5.8 65.1 97.7#
52 64.7 24.8 37.2#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 67.00 (66.70 to 67.70): VX0
Ion 52.00 (51.70 to 52.70): VX0





#43

Isopropyl Acetate

Concen: 2.258 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.00 min

Lab File: VX011333.D

Acq: 05 Aug 2019 18:00

Instrument :

MSVOA_X

ClientSampleId :

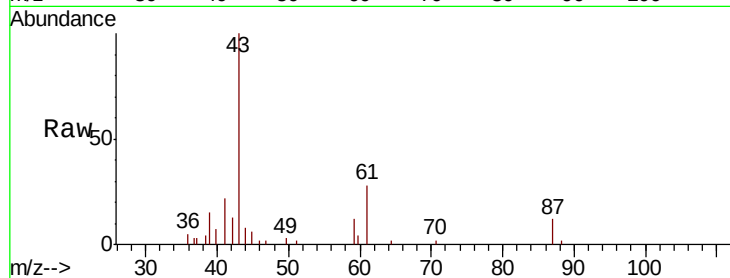
Tot Ion: 43 Resp: 8376

Ion Ratio Lower Upper

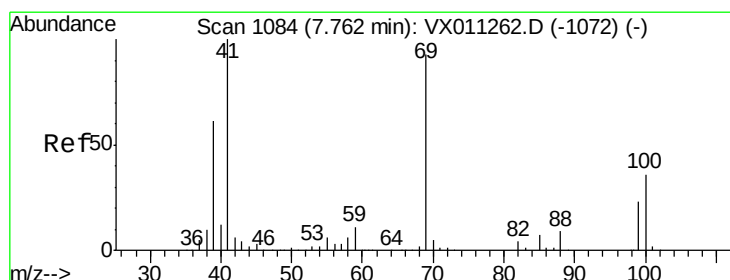
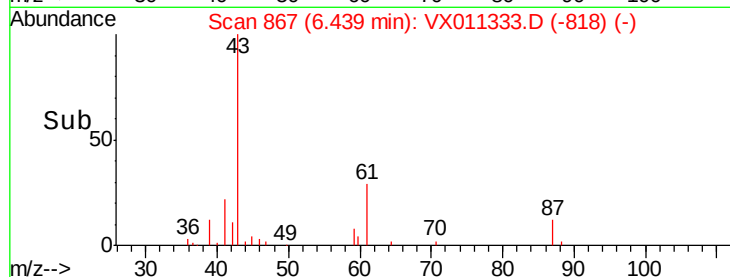
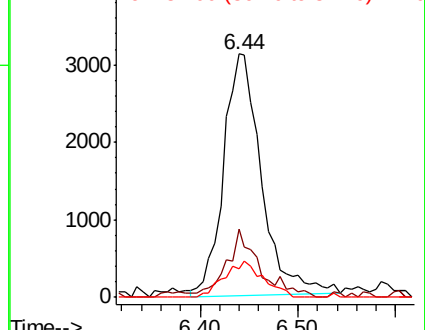
43 100

61 25.2 16.5 24.7#

87 15.3 12.1 18.1



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 2.230 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX011333.D

Acq: 05 Aug 2019 18:00

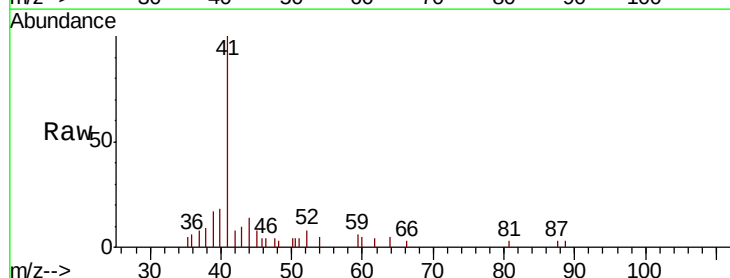
Tgt Ion: 41 Resp: 3893

Ion Ratio Lower Upper

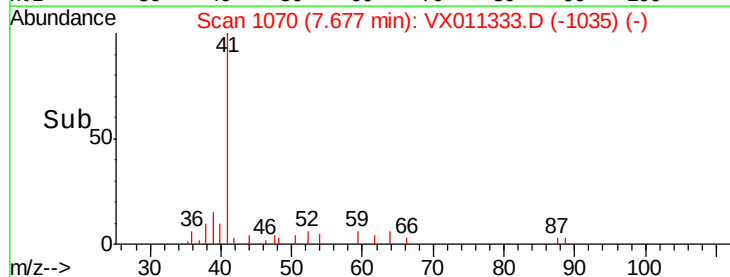
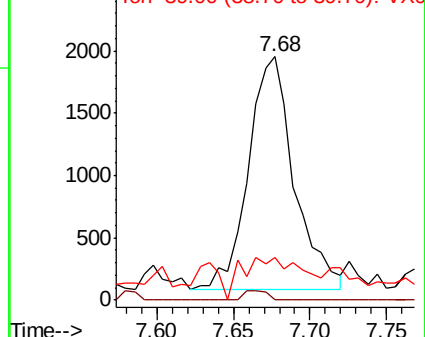
41 100

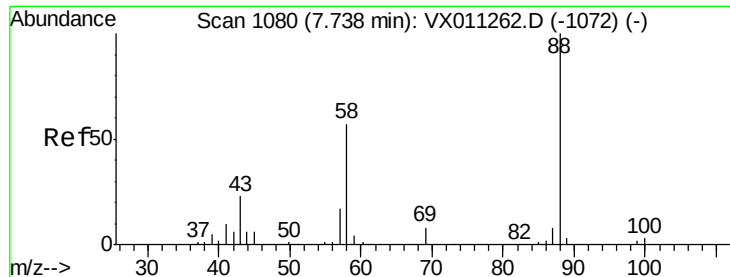
69 2.0 74.5 111.7#

39 24.8 48.6 72.8#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

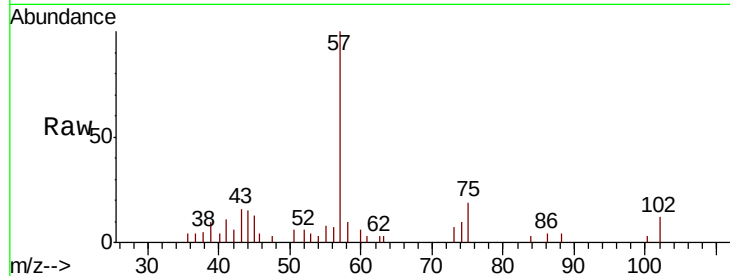




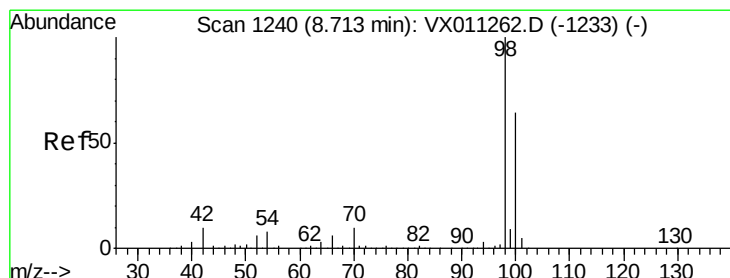
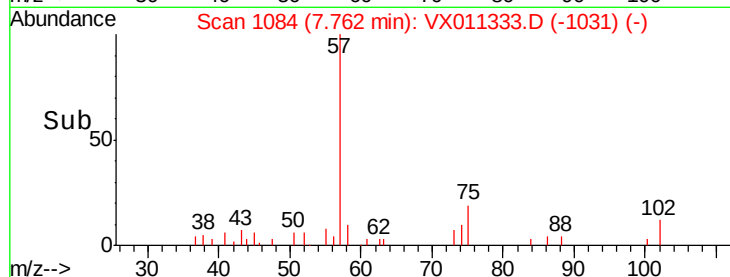
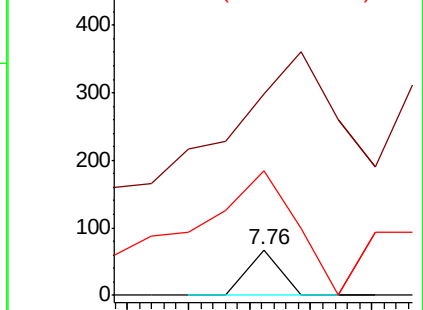
#49
 1,4-Dioxane
 Concen: 0.494 ug/l
 RT: 7.76 min Scan# 1084
 Delta R.T. 0.02 min
 Lab File: VX011333.D
 Acq: 05 Aug 2019 18:00

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 88 Resp: 25
 Ion Ratio Lower Upper
 88 100
 43 0.0 22.2 33.2#
 58 736.0 47.8 71.8#

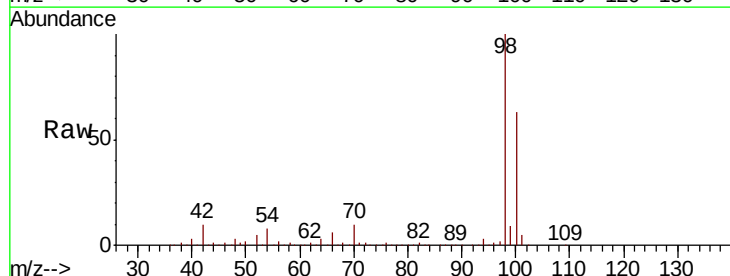


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

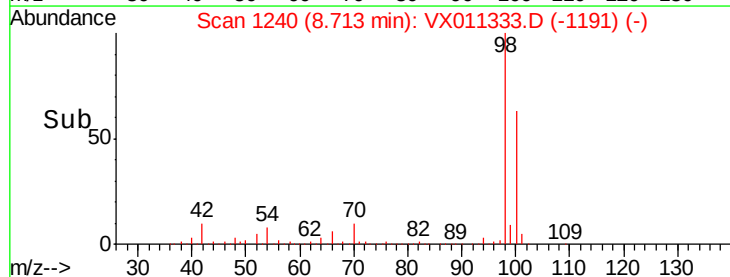
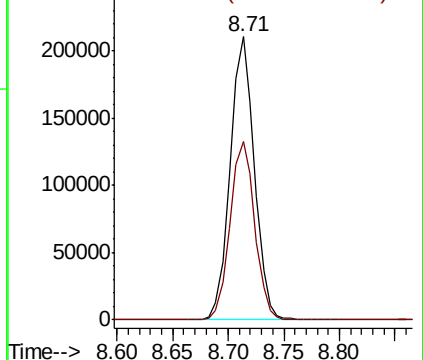


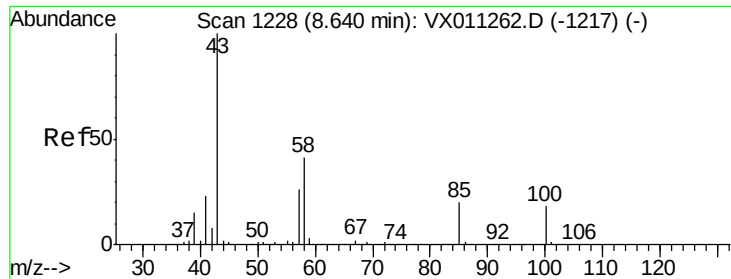
#50
 Toluene-d8
 Concen: 48.364 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VX011333.D
 Acq: 05 Aug 2019 18:00

Tgt Ion: 98 Resp: 315760
 Ion Ratio Lower Upper
 98 100
 100 64.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 17.149 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011333.D

Acq: 05 Aug 2019 18:00

Instrument :

MSVOA_X

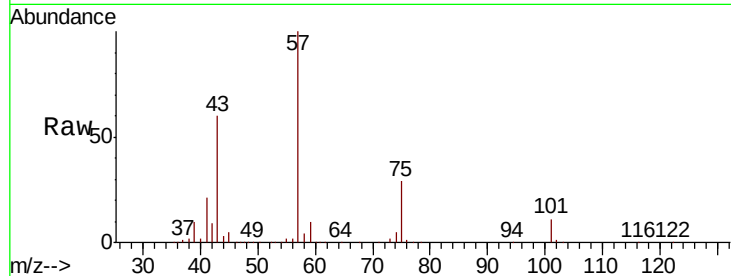
ClientSampleId :

Tot Ion: 43 Resp: 41053

Ion Ratio Lower Upper

43 100

58 8.0 32.3 48.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.61

25000

20000

15000

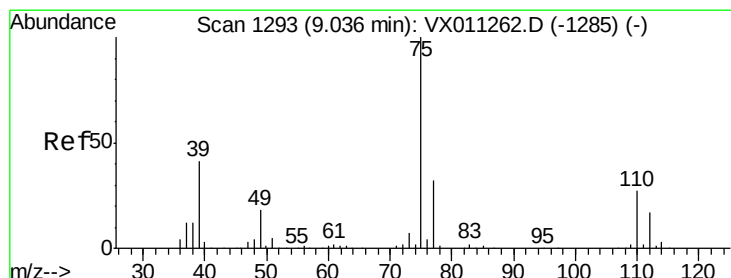
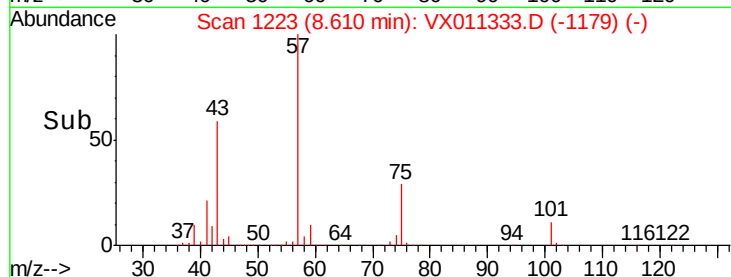
10000

5000

0

8.50 8.55 8.60 8.65 8.70

Time-->



#53

t-1,3-Dichloropropene

Concen: 2.854 ug/l

RT: 9.03 min Scan# 1292

Delta R.T. -0.01 min

Lab File: VX011333.D

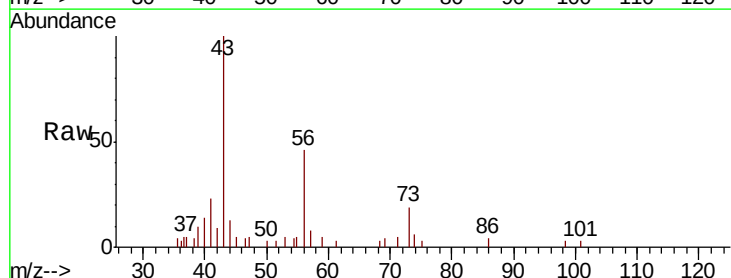
Acq: 05 Aug 2019 18:00

Tgt Ion: 75 Resp: 43

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

9.03

60

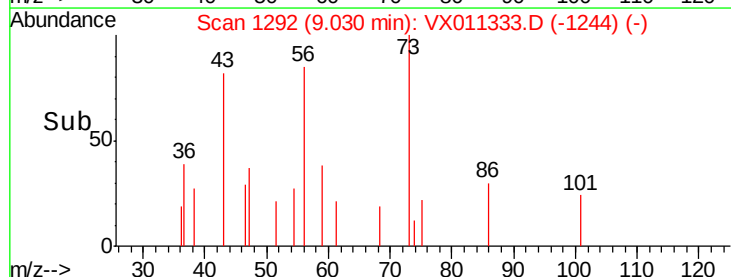
40

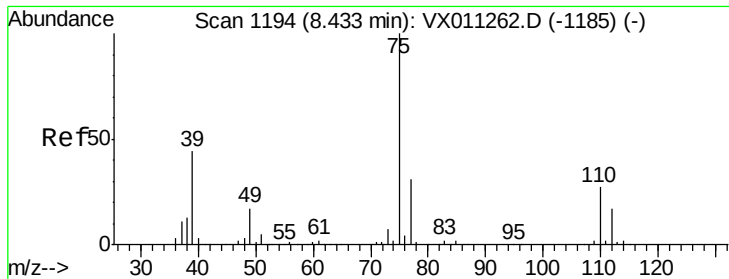
20

0

9.02 9.04

Time-->



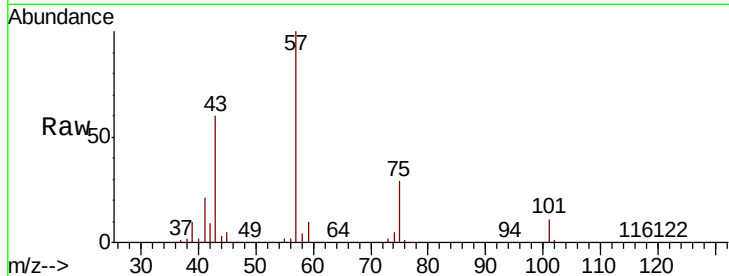


#54

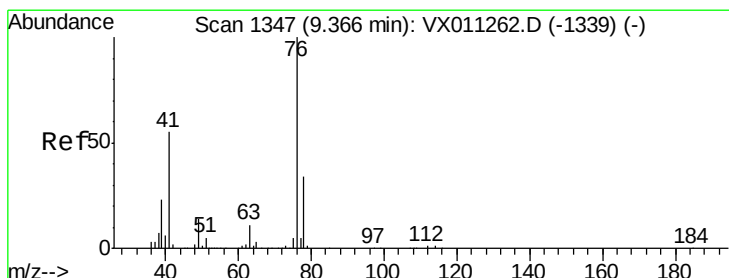
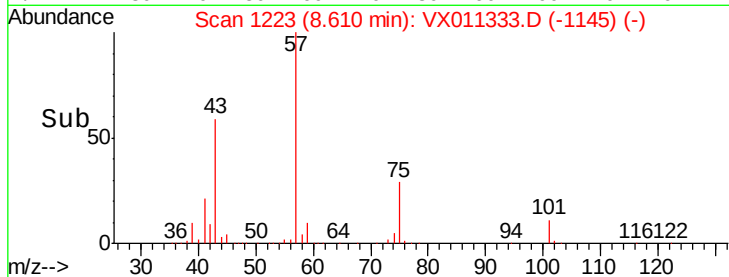
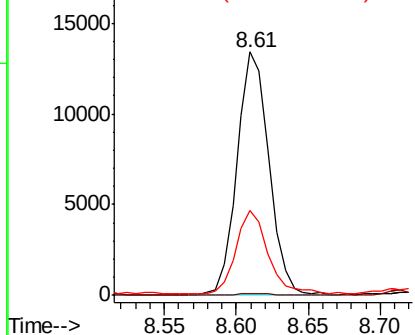
cis-1,3-Dichloropropene
 Concen: 8.025 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011333.D
 Acq: 05 Aug 2019 18:00

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 75 Resp: 20712
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.0 37.6#
 39 33.4 35.3 52.9#



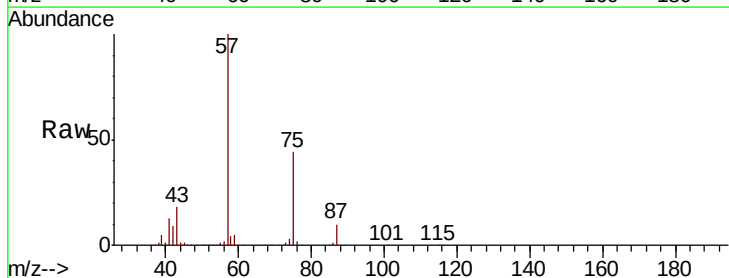
Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0



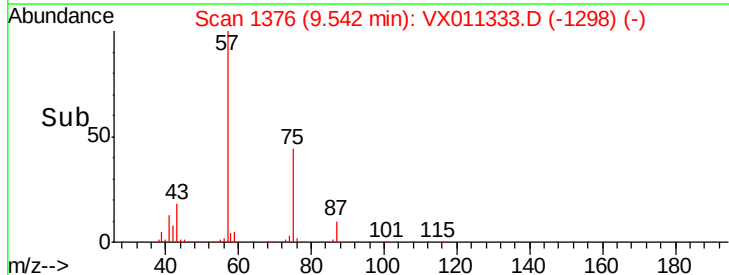
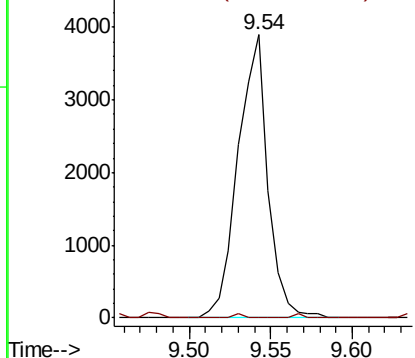
#57

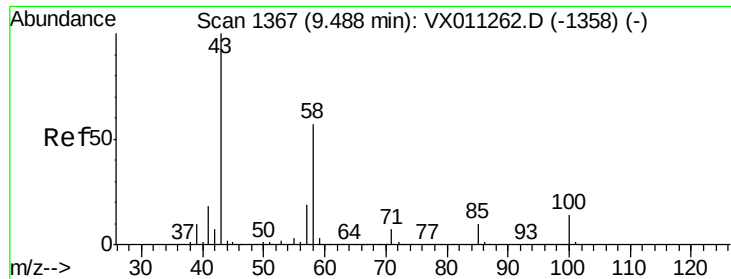
1,3-Dichloropropane
 Concen: 1.675 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.18 min
 Lab File: VX011333.D
 Acq: 05 Aug 2019 18:00

Tgt Ion: 76 Resp: 4970
 Ion Ratio Lower Upper
 76 100
 78 0.4 26.6 40.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0
 Ion 77.90 (77.60 to 78.60): VX0

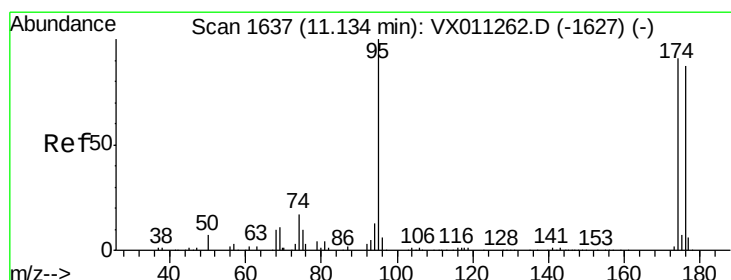
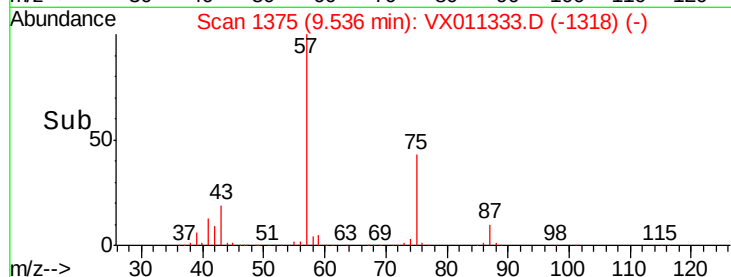
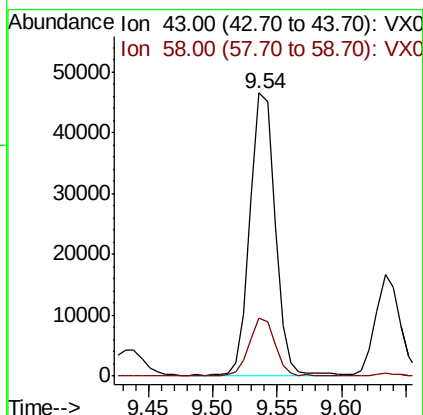
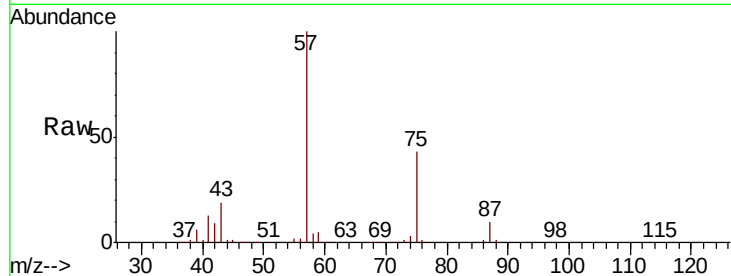




#59
2-Hexanone
Concen: 33.632 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011333.D
Acq: 05 Aug 2019 18:00

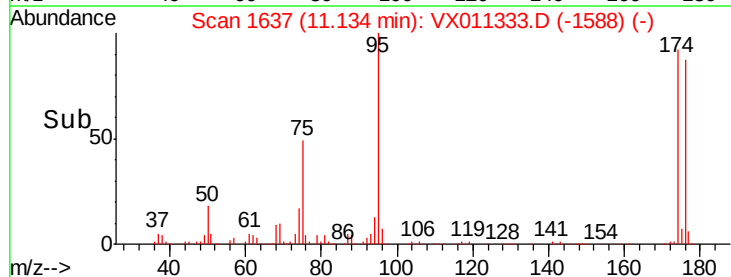
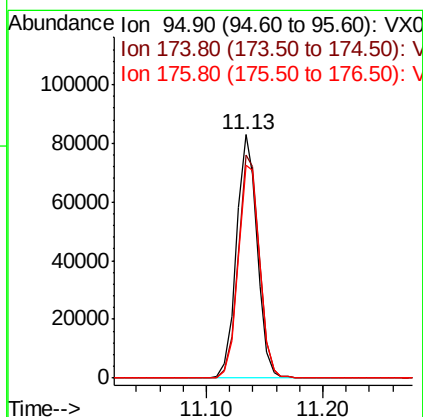
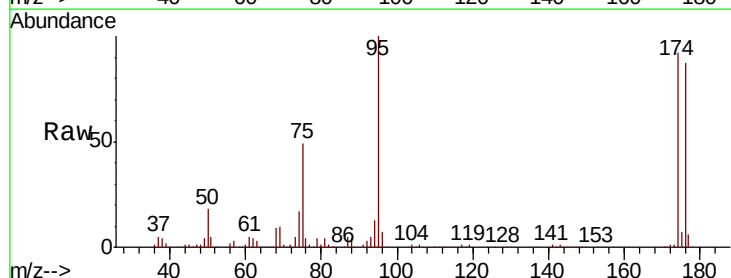
Instrument :
MSVOA_X
ClientSampleId :

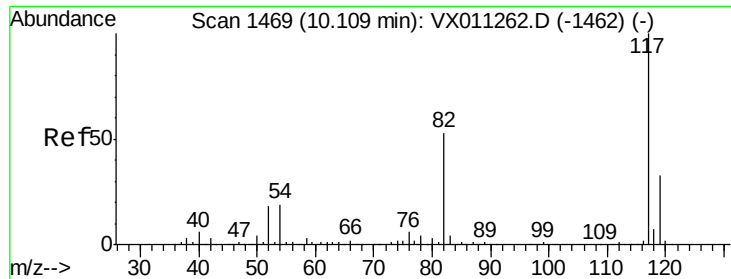
Tot Ion: 43 Resp: 62361
Ion Ratio Lower Upper
43 100
58 21.8 28.2 84.6#



#62
4-Bromofluorobenzene
Concen: 44.150 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011333.D
Acq: 05 Aug 2019 18:00

Tgt Ion: 95 Resp: 102912
Ion Ratio Lower Upper
95 100
174 93.8 0.0 191.2
176 90.7 0.0 184.8

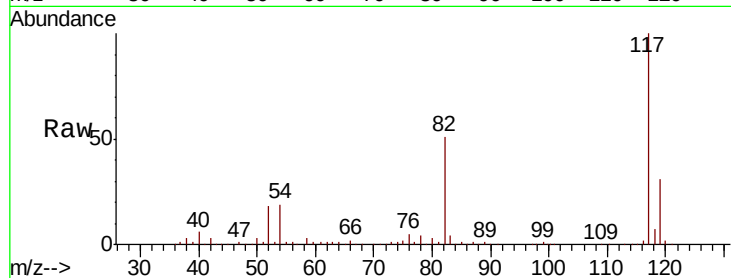




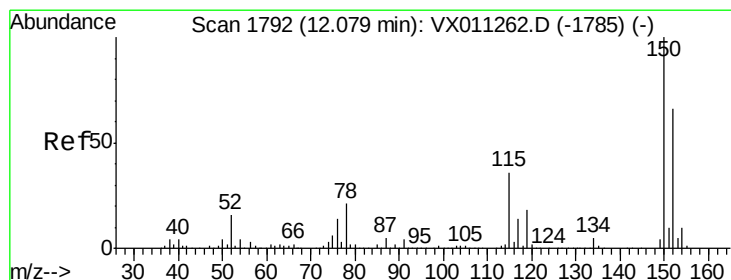
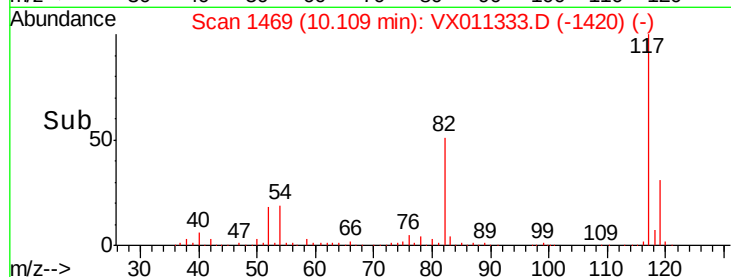
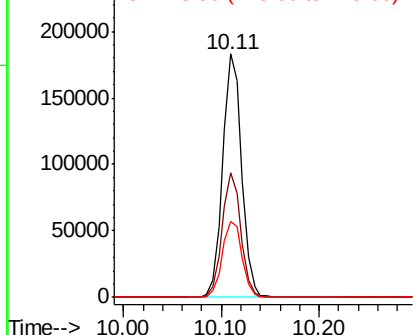
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011333.D
Acq: 05 Aug 2019 18:00

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 245432
Ion Ratio Lower Upper
117 100
82 51.2 42.2 63.2
119 31.4 26.6 39.8

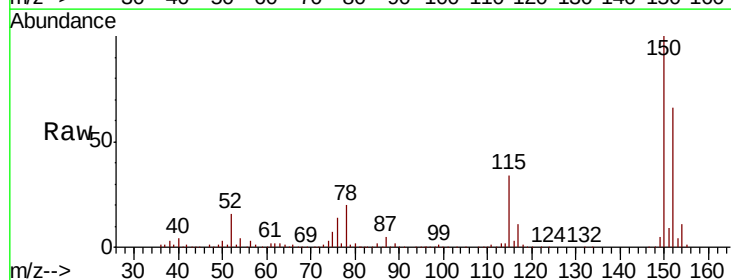


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

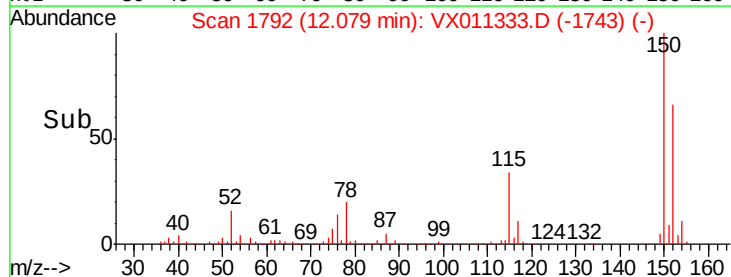
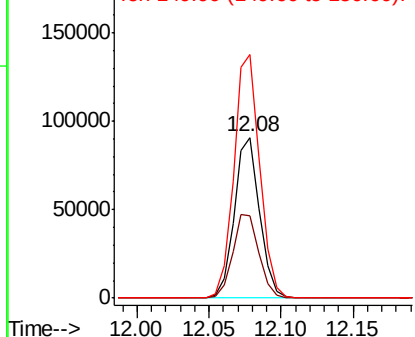


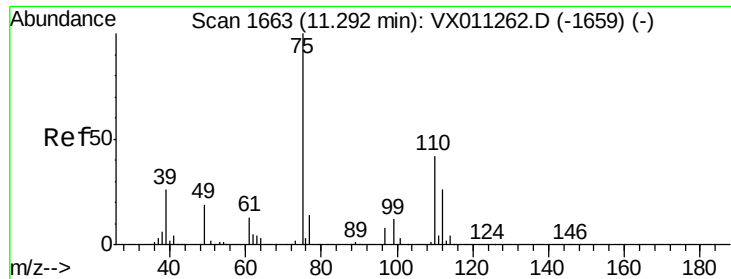
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011333.D
Acq: 05 Aug 2019 18:00

Tgt Ion:152 Resp: 111286
Ion Ratio Lower Upper
152 100
115 54.4 40.0 119.9
150 155.2 0.0 350.4



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

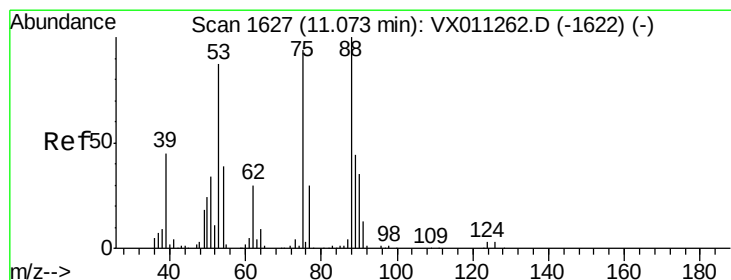
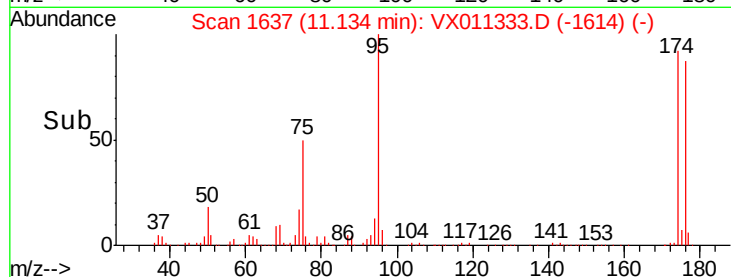
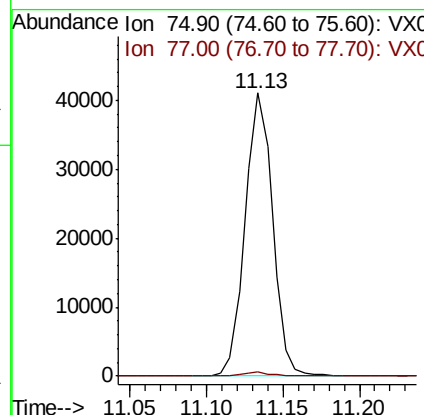
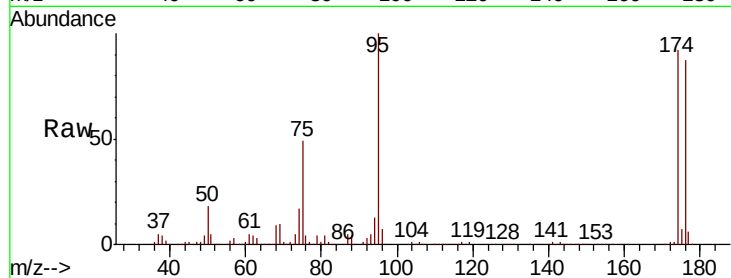




#76
 1,2,3-Trichloropropane
 Concen: 25.274 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011333.D
 Acq: 05 Aug 2019 18:00

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 51221
 Ion Ratio Lower Upper
 75 100
 77 1.4 21.1 63.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.904 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011333.D
 Acq: 05 Aug 2019 18:00

Tgt Ion: 75 Resp: 51221
 Ion Ratio Lower Upper
 75 100
 53 0.3 78.2 117.4#
 89 0.2 37.9 56.9#

