

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050820\
 Data File : VX016128.D
 Acq On : 08 May 2020 17:57
 Operator : JC/SP
 Sample : L2506-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 09 01:51:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	269625	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	453976	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	444395	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	229798	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	170943	48.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.36%	
35) Dibromofluoromethane	5.47	113	137184	47.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.40%	
50) Toluene-d8	8.70	98	560338	50.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.12%	
62) 4-Bromofluorobenzene	11.12	95	226868	53.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.64%	

Target Compounds

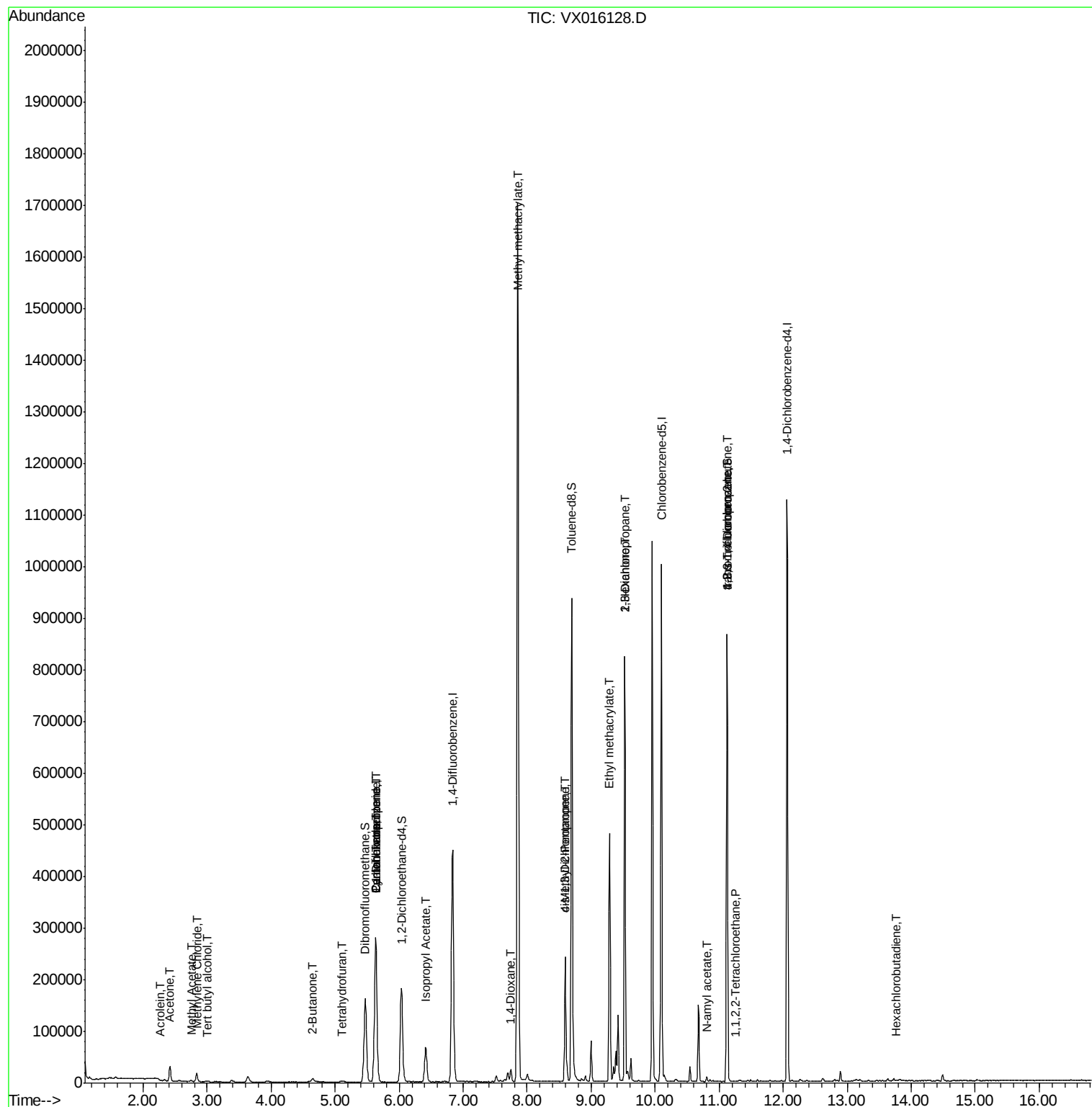
						Qvalue
11) Tert butyl alcohol	3.01	59	1052	1.173	ug/l #	77
13) Acrolein	2.26	56	379	0.675	ug/l #	55
16) Acetone	2.42	43	30130	19.033	ug/l	96
18) Methyl Acetate	2.75	43	3791	0.974	ug/l	97
20) Methylene Chloride	2.84	84	8028	2.460	ug/l	96
25) 2-Butanone	4.65	43	7646	2.997	ug/l	95
29) Tetrahydrofuran	5.10	42	2263	1.339	ug/l	98
31) Cyclohexane	5.63	56	5390	1.094	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	20685	4.629	ug/l #	49
38) Carbon Tetrachloride	5.63	117	26186	5.765	ug/l #	14
43) Isopropyl Acetate	6.42	43	92070	11.141	ug/l	100
48) Methyl methacrylate	7.85	41	139067	35.514	ug/l #	41
49) 1,4-Dioxane	7.74	88	19	0.202	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	87662	17.335	ug/l #	43
54) cis-1,3-Dichloropropene	8.60	75	40008	7.016	ug/l #	58
56) Ethyl methacrylate	9.29	69	1171	0.224	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	6859	1.226	ug/l #	42
59) 2-Hexanone	9.52	43	88721	22.340	ug/l #	49
74) N-amyl acetate	10.81	43	4459	0.572	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	11.26	83	19	2.055	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	113756	21.815	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	113756	51.986	ug/l #	13
94) Hexachlorobutadiene	13.76	225	21	0.532	ug/l #	18

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

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QLast Update : Wed May 06 06:43:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016128.D

Acq: 08 May 2020 17:57

Instrument :

MSVOA_X

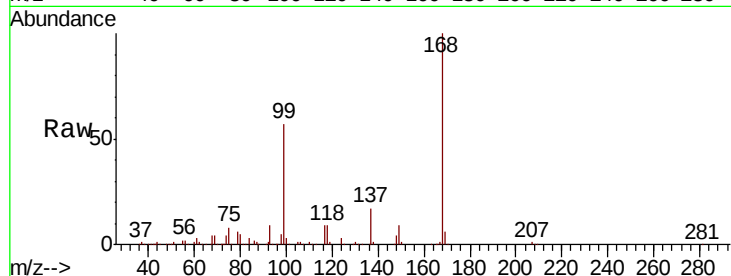
ClientSampled :

Tot Ion:168 Resp: 269625

Ion Ratio Lower Upper

168 100

99 57.5 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

60000

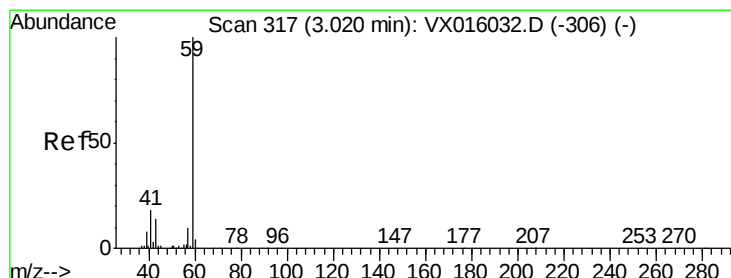
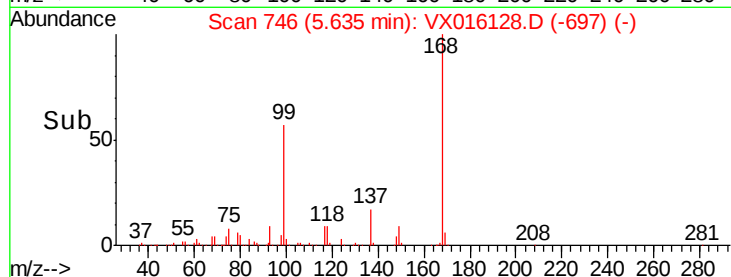
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 1.173 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX016128.D

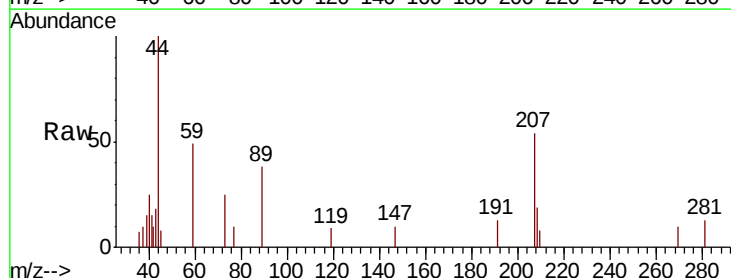
Acq: 08 May 2020 17:57

Tgt Ion: 59 Resp: 1052

Ion Ratio Lower Upper

59 100

57 1.8 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

400

300

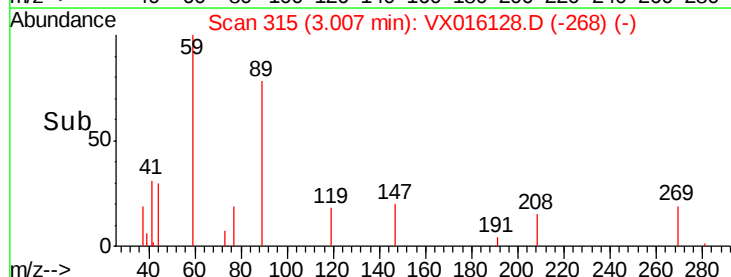
200

100

0

Time-->

2.90 2.95 3.00 3.05 3.10





#13

Acrolein

Concen: 0.675 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX016128.D

Acq: 08 May 2020 17:57

Instrument :

MSVOA_X

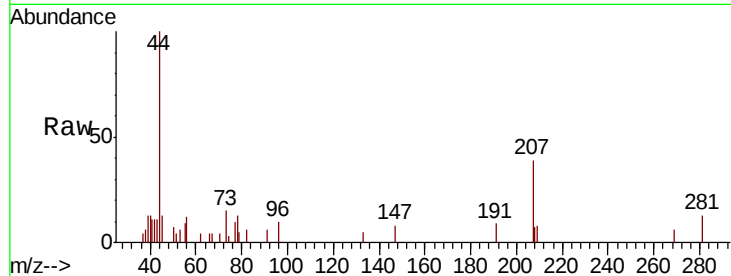
ClientSampleId :

Tot Ion: 56 Resp: 379

Ion Ratio Lower Upper

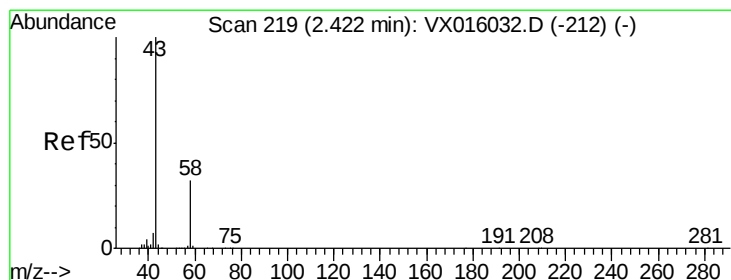
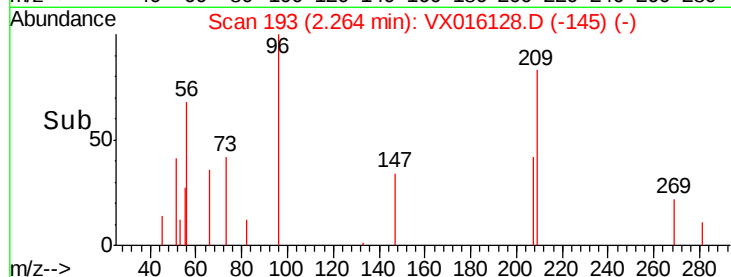
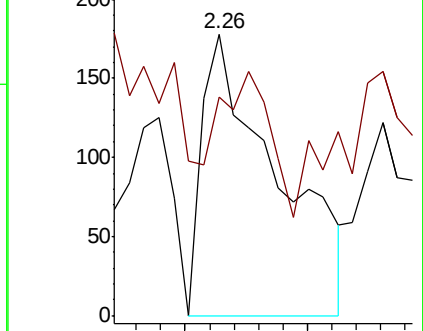
56 100

55 33.5 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 19.033 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016128.D

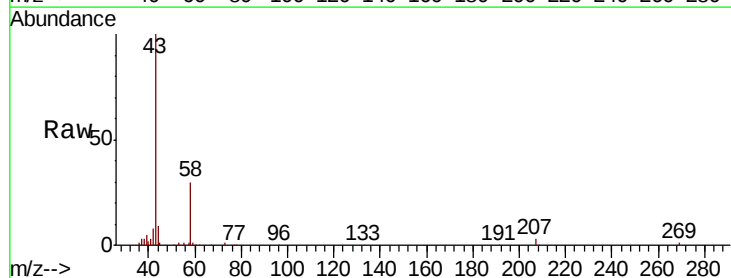
Acq: 08 May 2020 17:57

Tgt Ion: 43 Resp: 30130

Ion Ratio Lower Upper

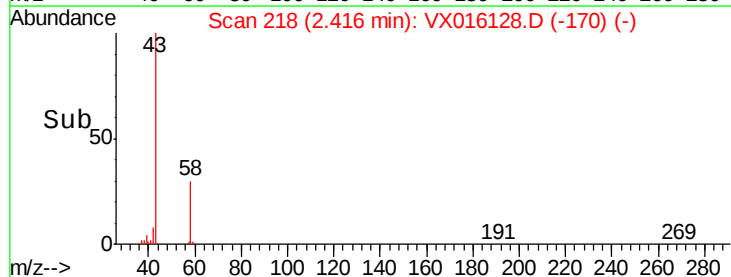
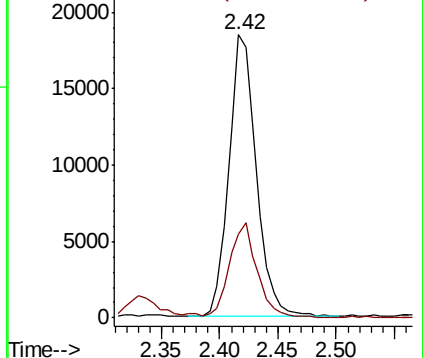
43 100

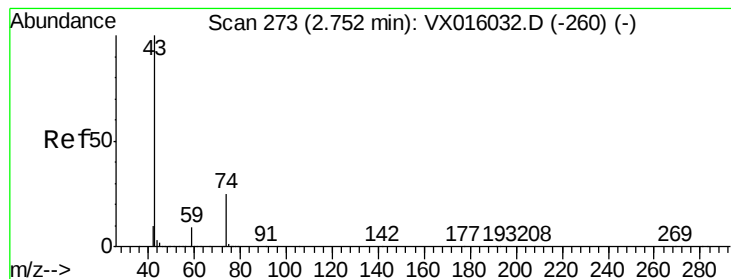
58 29.7 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#18

Methvl Acetate

Concen: 0.974 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX016128.D

Acq: 08 May 2020 17:57

Instrument :

MSVOA_X

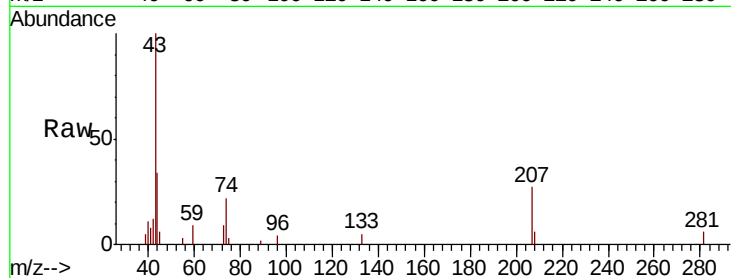
ClientSampleId :

Tot Ion: 43 Resp: 3791

Ion Ratio Lower Upper

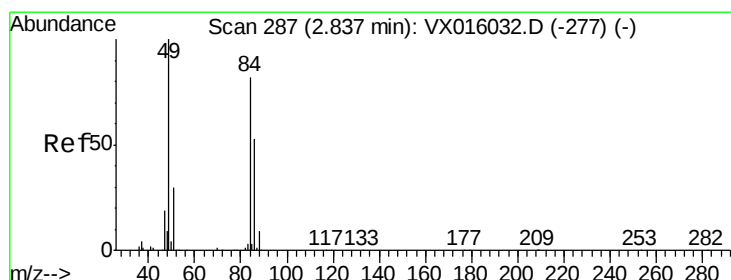
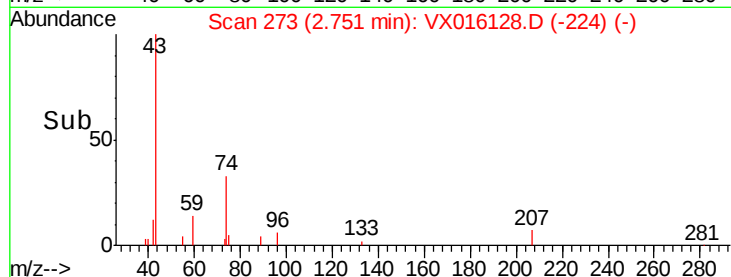
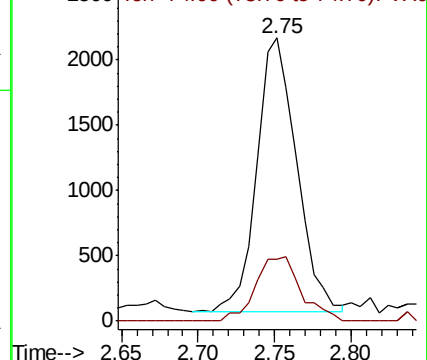
43 100

74 27.0 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: 2.460 ug/l

RT: 2.84 min Scan# 287

Delta R.T. -0.00 min

Lab File: VX016128.D

Acq: 08 May 2020 17:57

Tgt Ion: 84 Resp: 8028

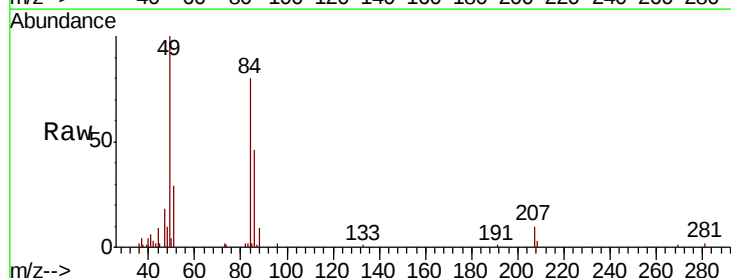
Ion Ratio Lower Upper

84 100

49 124.5 97.3 145.9

51 36.7 29.3 43.9

86 57.9 51.3 76.9

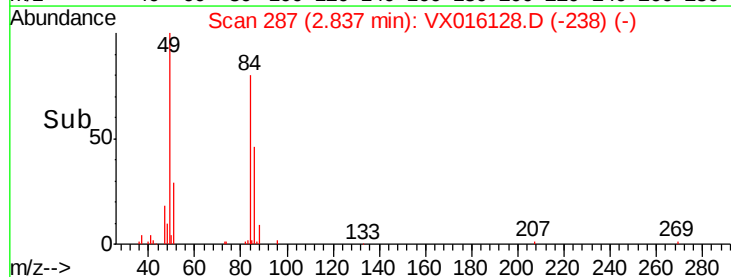
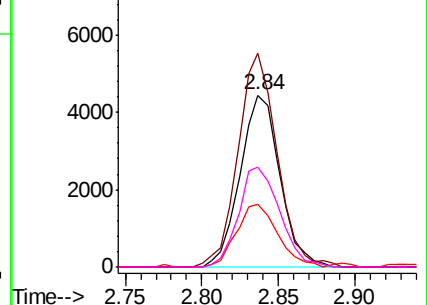


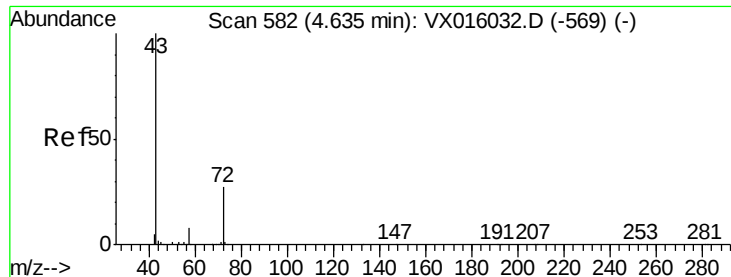
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 2.997 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX016128.D

Acq: 08 May 2020 17:57

Instrument :

MSVOA_X

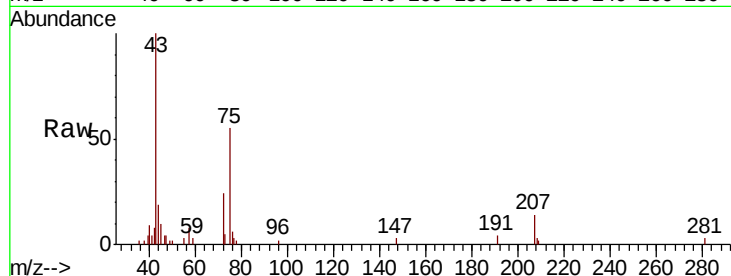
ClientSampleId :

Tot Ion: 43 Resp: 7646

Ion Ratio Lower Upper

43 100

72 24.6 21.8 32.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

3000

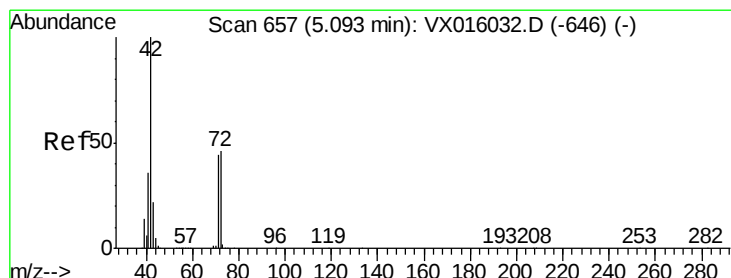
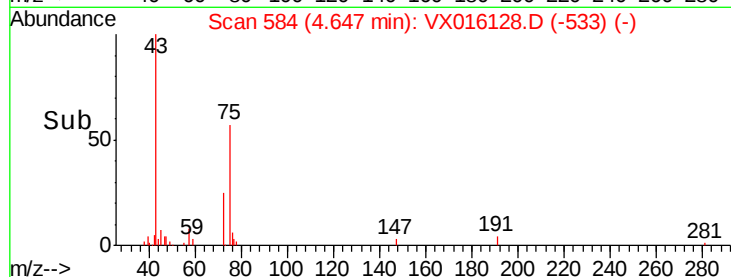
2000

1000

0

4.55 4.60 4.65 4.70 4.75

Time-->



#29

Tetrahydrofuran

Concen: 1.339 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX016128.D

Acq: 08 May 2020 17:57

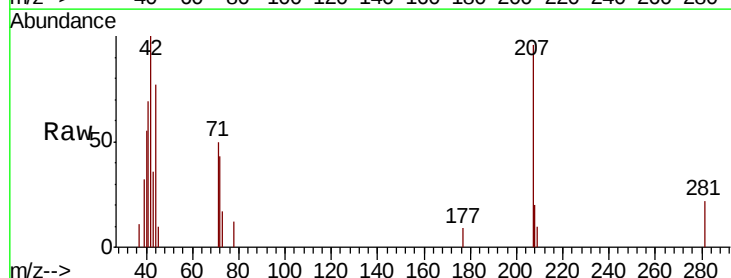
Tgt Ion: 42 Resp: 2263

Ion Ratio Lower Upper

42 100

72 45.6 37.1 55.7

71 41.2 34.5 51.7



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

800

600

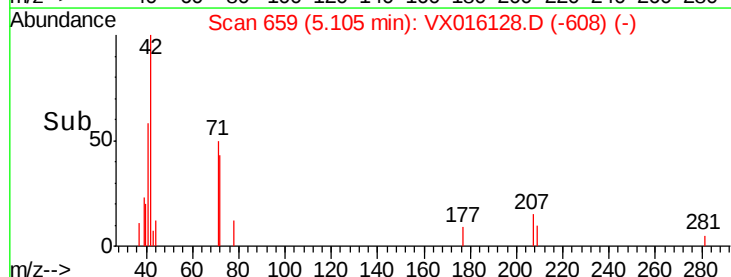
400

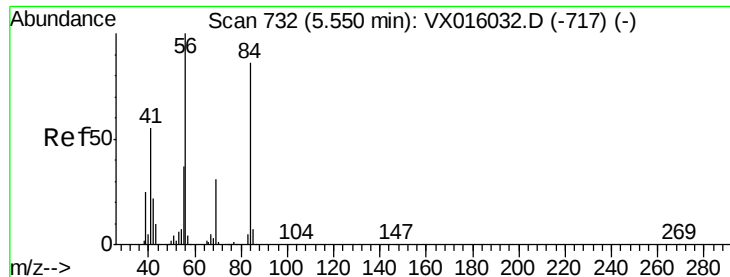
200

0

5.05 5.10 5.15 5.20

Time-->

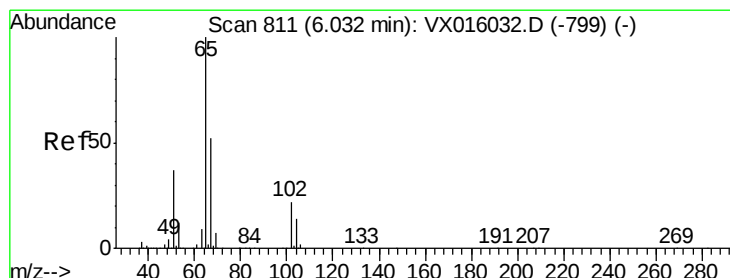
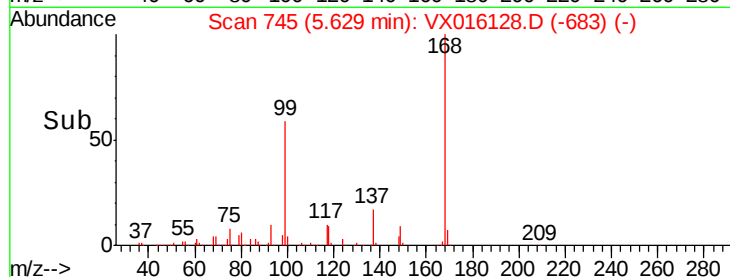
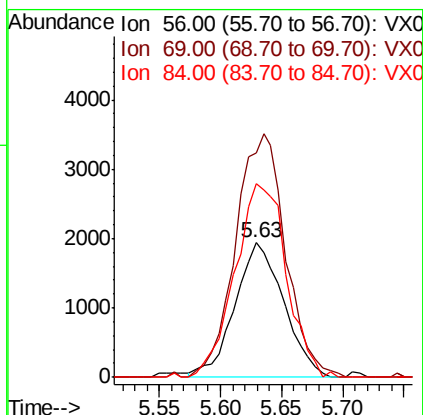
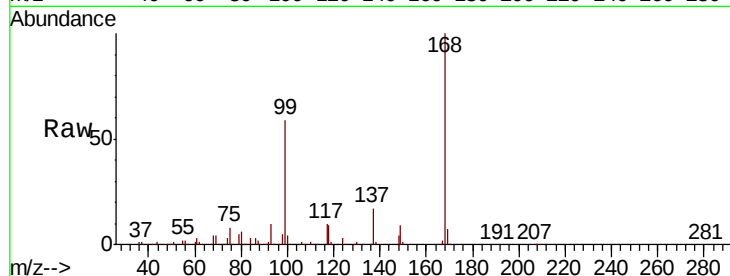




#31
Cyclohexane
Concen: 1.094 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016128.D
Acq: 08 May 2020 17:57

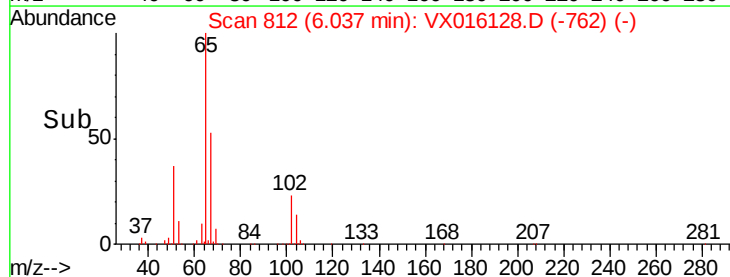
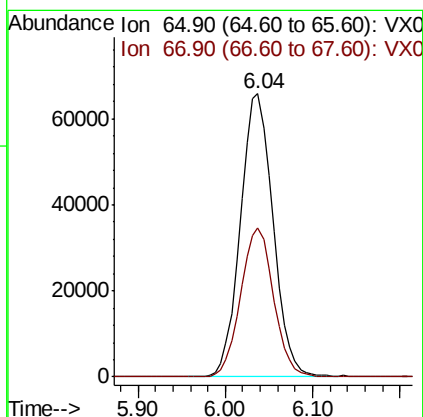
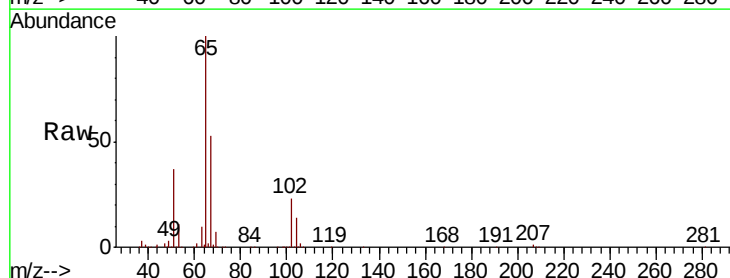
Instrument :
MSVOA_X
ClientSampled :

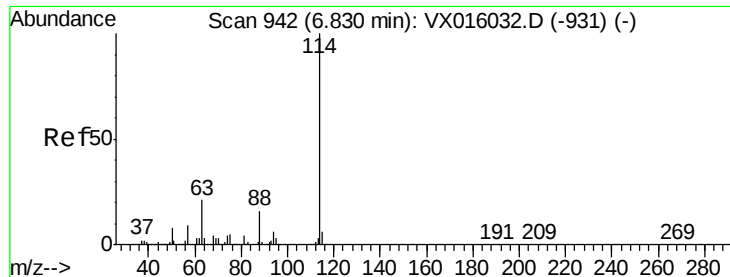
Tot Ion: 56 Resp: 5390
Ion Ratio Lower Upper
56 100
69 167.1 25.0 37.6#
84 144.1 69.0 103.6#



#33
1,2-Dichloroethane-d4
Concen: 48.180 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX016128.D
Acq: 08 May 2020 17:57

Tgt Ion: 65 Resp: 170943
Ion Ratio Lower Upper
65 100
67 53.1 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016128.D

Acq: 08 May 2020 17:57

Instrument :

MSVOA_X

ClientSampled :

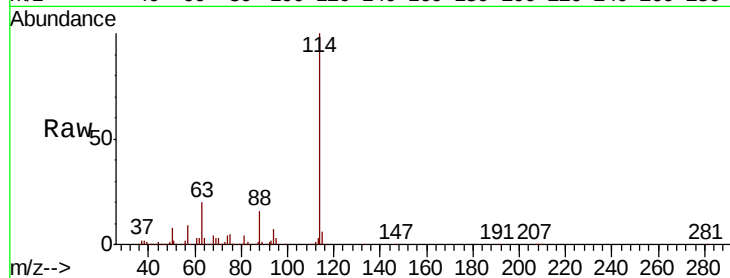
Tot Ion:114 Resp: 453976

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.8

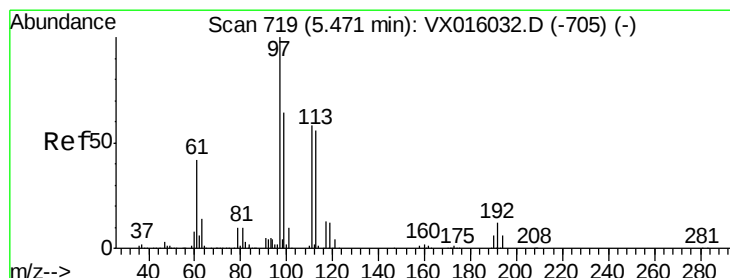
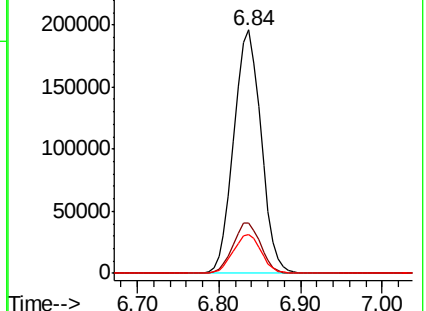
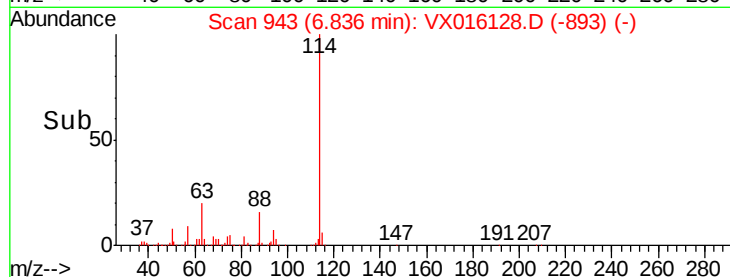
88 16.1 0.0 31.4



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: 47.697 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016128.D

Acq: 08 May 2020 17:57

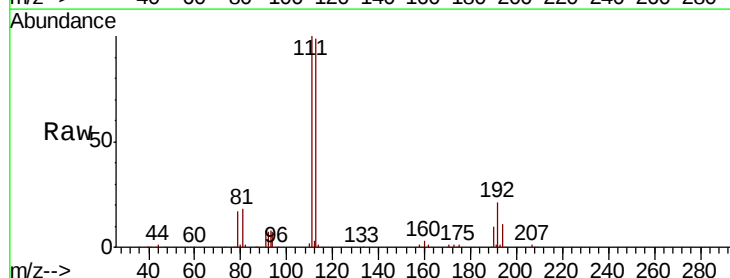
Tgt Ion:113 Resp: 137184

Ion Ratio Lower Upper

113 100

111 102.3 81.6 122.4

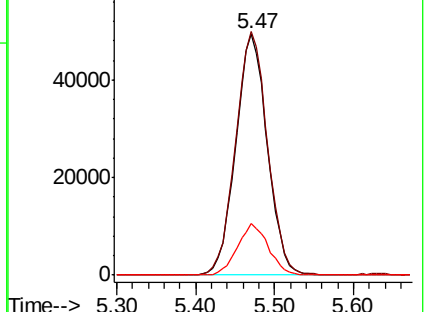
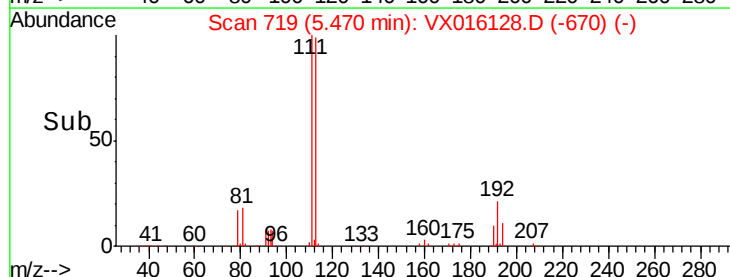
192 21.1 17.0 25.4

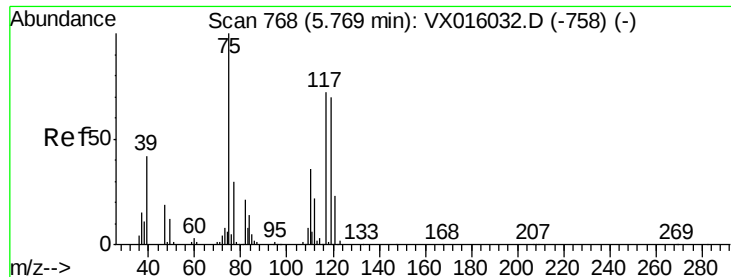


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.629 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX016128.D

Acq: 08 May 2020 17:57

Instrument :

MSVOA_X

ClientSampleId :

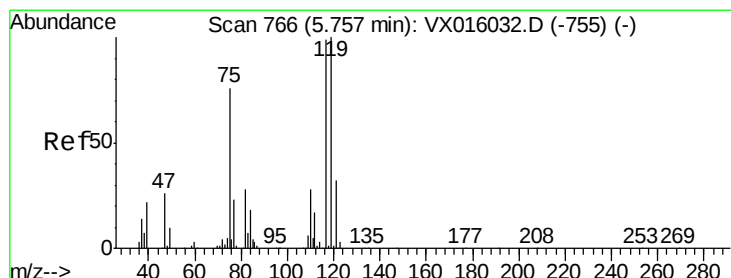
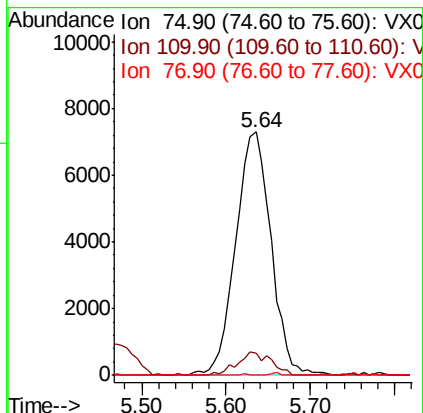
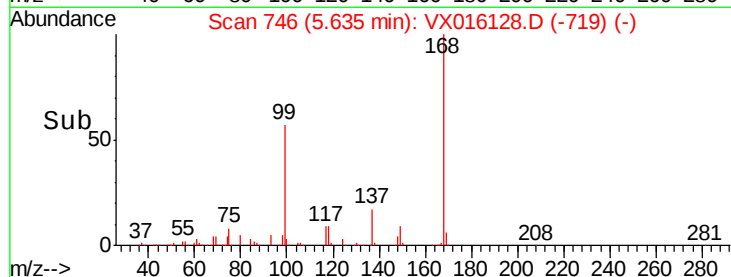
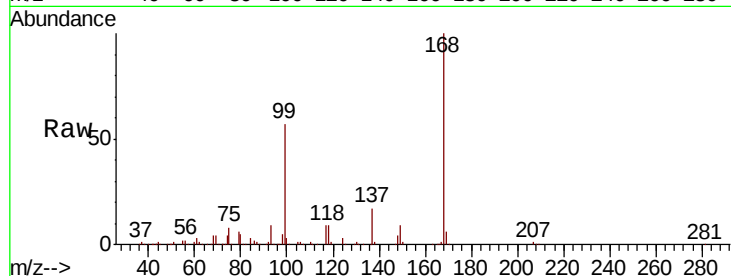
Tot Ion: 75 Resp: 20685

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.1#

77 0.1 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.765 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016128.D

Acq: 08 May 2020 17:57

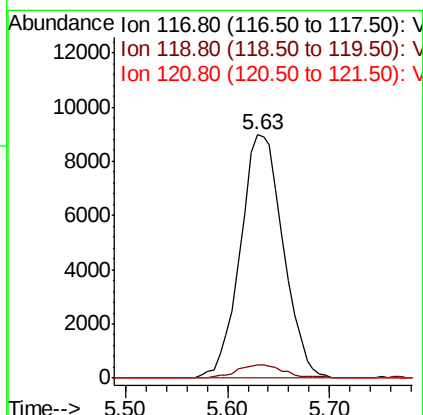
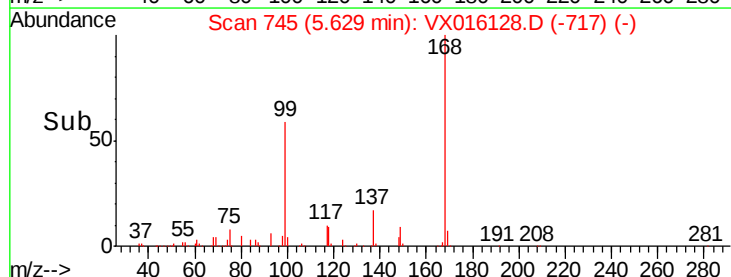
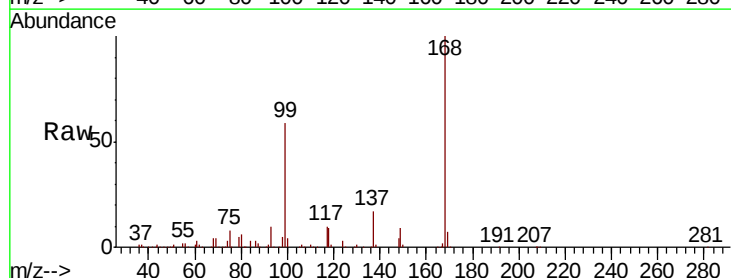
Tgt Ion: 117 Resp: 26186

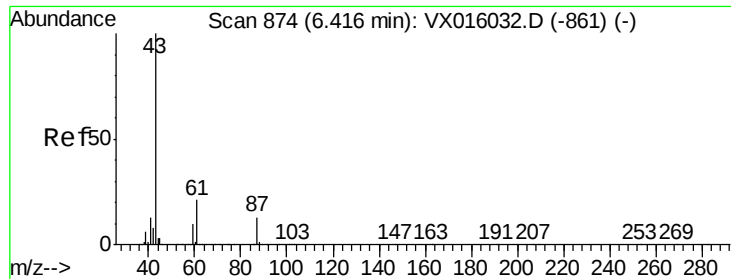
Ion Ratio Lower Upper

117 100

119 5.6 80.3 120.5#

121 0.0 25.7 38.5#





#43

Isopropyl Acetate

Concen: 11.141 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX016128.D

Acq: 08 May 2020 17:57

Instrument :

MSVOA_X

ClientSampleId :

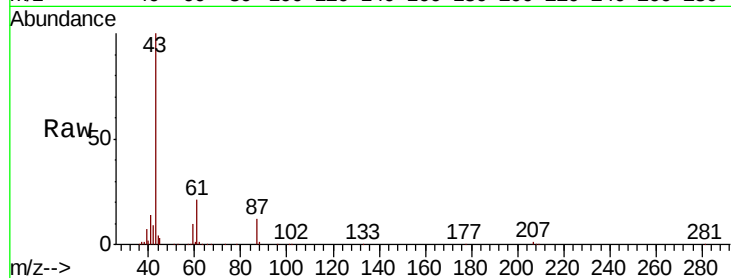
Tot Ion: 43 Resp: 92070

Ion Ratio Lower Upper

43 100

61 21.2 17.0 25.4

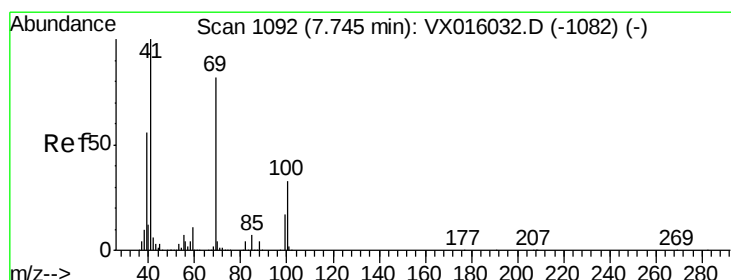
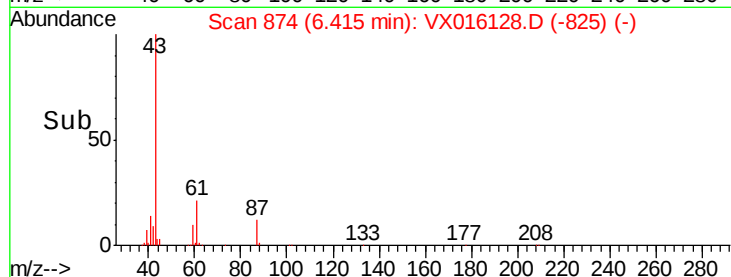
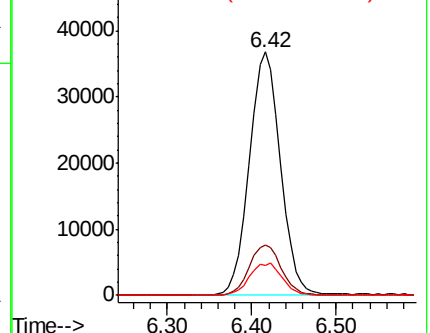
87 13.8 11.0 16.6



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: 35.514 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.11 min

Lab File: VX016128.D

Acq: 08 May 2020 17:57

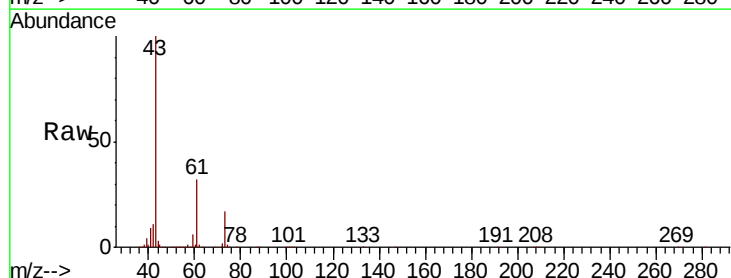
Tgt Ion: 41 Resp: 139067

Ion Ratio Lower Upper

41 100

69 0.2 67.8 101.6#

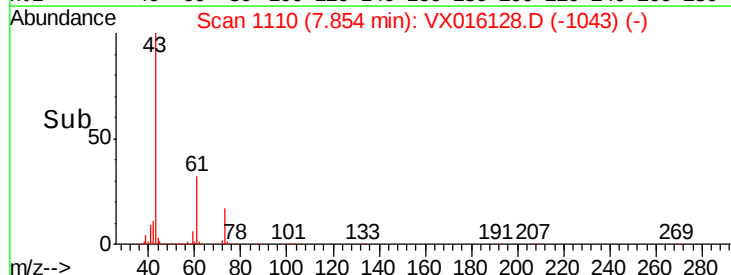
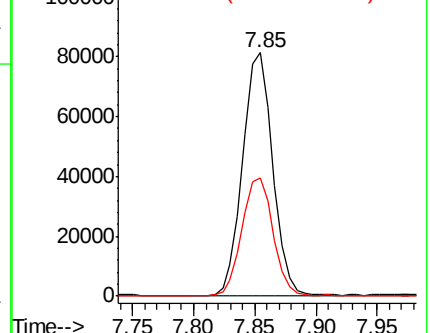
39 50.3 44.6 67.0

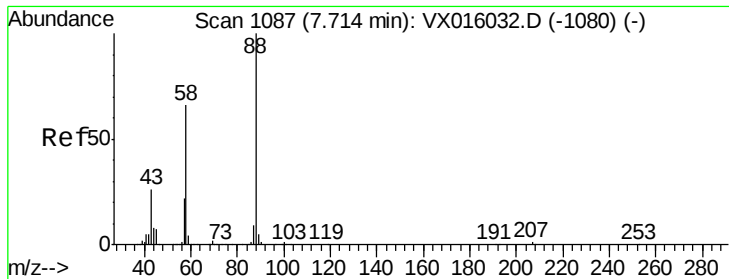


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

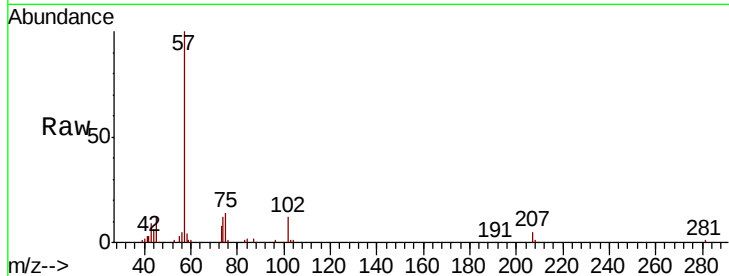




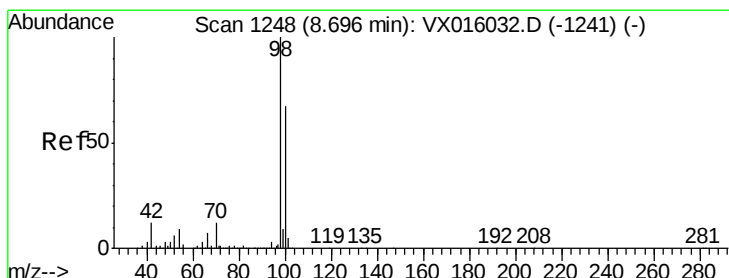
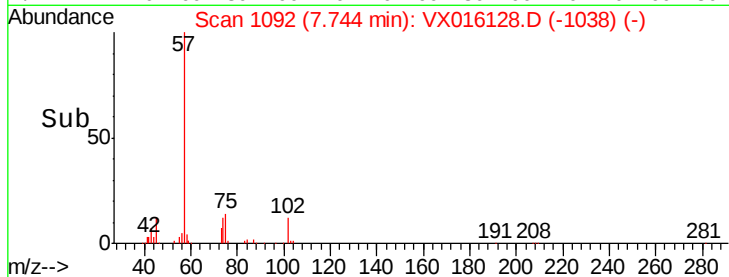
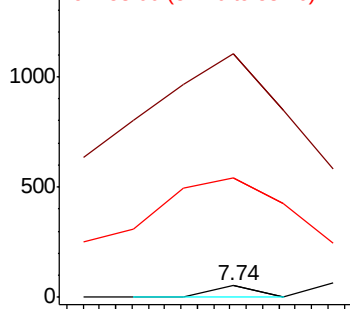
#49
 1,4-Dioxane
 Concen: 0.202 ug/l
 RT: 7.74 min Scan# 1092
 Delta R.T. 0.03 min
 Lab File: VX016128.D
 Acq: 08 May 2020 17:57

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 88 Resp: 19
 Ion Ratio Lower Upper
 88 100
 43 0.0 25.3 37.9#
 58 4905.3 55.9 83.9#

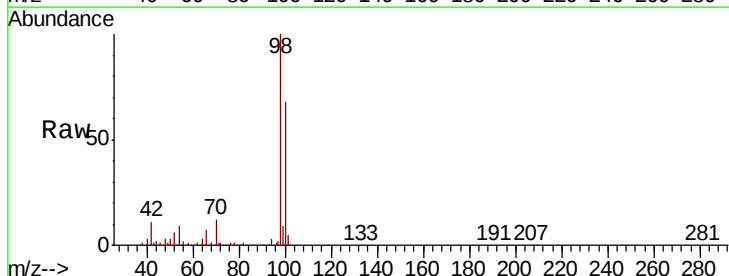


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

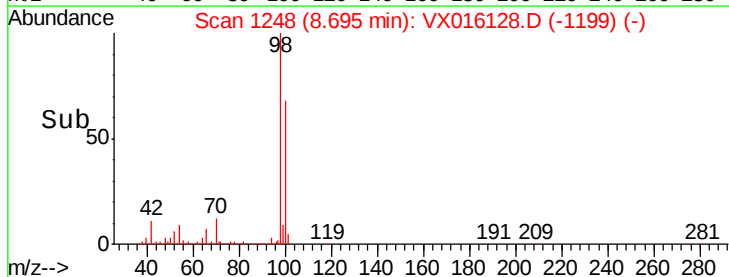
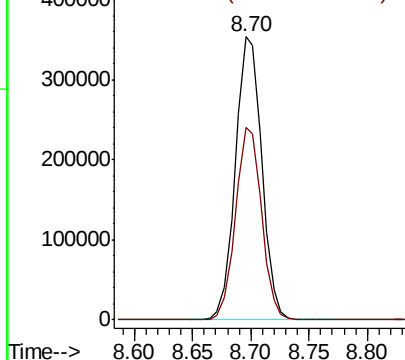


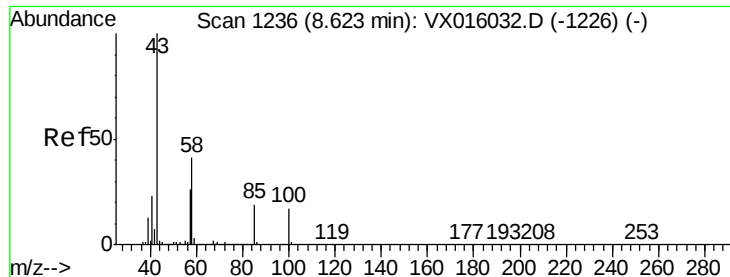
#50
 Toluene-d8
 Concen: 50.563 ug/l
 RT: 8.70 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VX016128.D
 Acq: 08 May 2020 17:57

Tgt Ion: 98 Resp: 560338
 Ion Ratio Lower Upper
 98 100
 100 67.3 53.7 80.5



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





#51

4-Methyl-2-Pentanone

Concen: 17.335 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VX016128.D

Acq: 08 May 2020 17:57

Instrument :

MSVOA_X

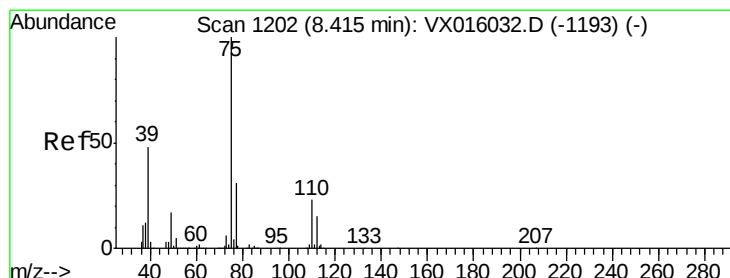
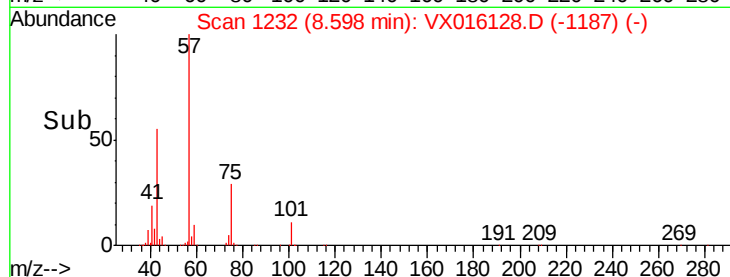
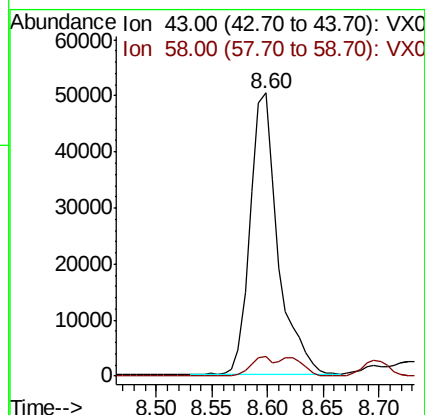
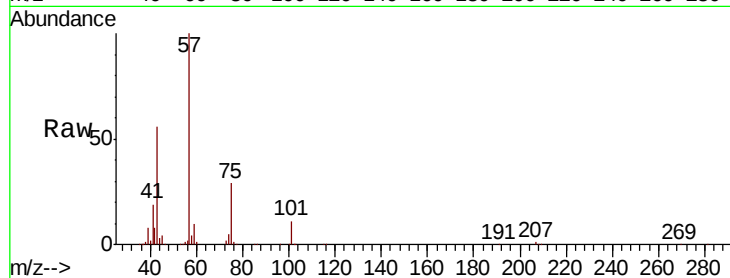
ClientSampled :

Tot Ion: 43 Resp: 87662

Ion Ratio Lower Upper

43 100

58 5.4 33.0 49.4#



#54

cis-1,3-Dichloropropene

Concen: 7.016 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX016128.D

Acq: 08 May 2020 17:57

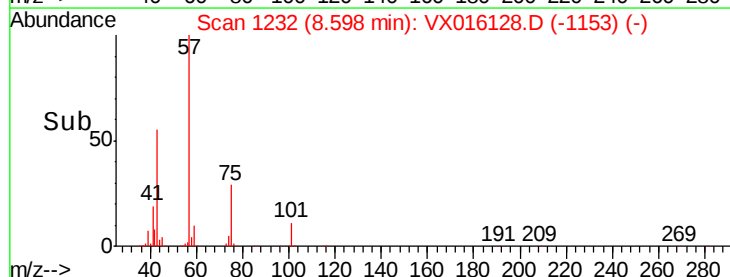
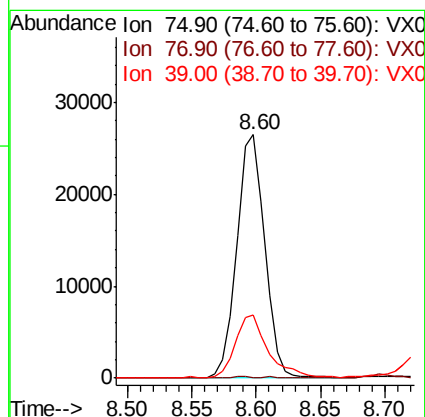
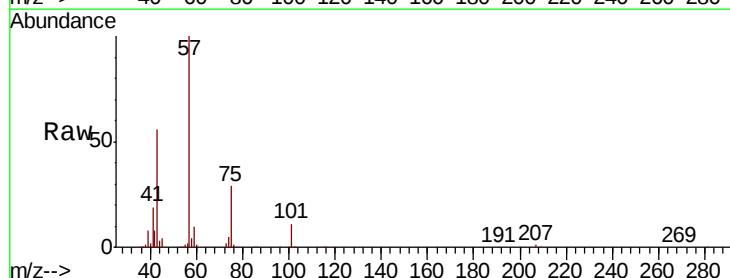
Tgt Ion: 75 Resp: 40008

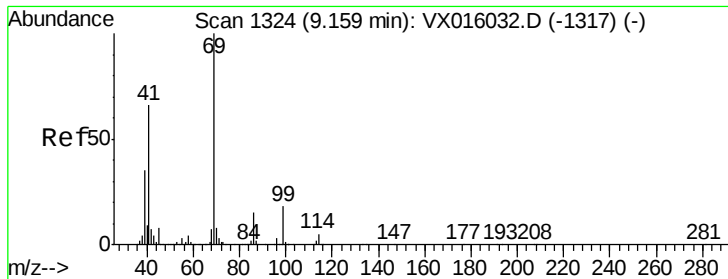
Ion Ratio Lower Upper

75 100

77 0.4 24.7 37.1#

39 25.7 38.7 58.1#





#56

Ethyl methacrylate

Concen: 0.224 ug/l

RT: 9.29 min Scan# 1346

Delta R.T. 0.13 min

Lab File: VX016128.D

Acq: 08 May 2020 17:57

Instrument :
MSVOA_X
ClientSampleId :

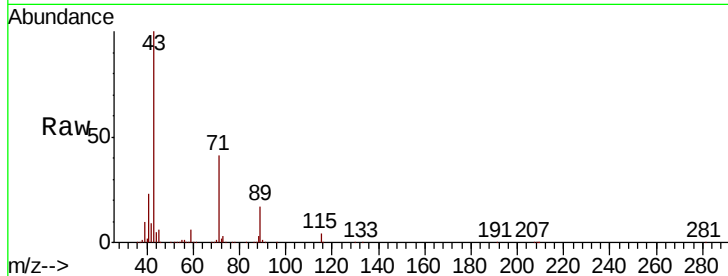
Tot Ion: 69 Resp: 1171

Ion Ratio Lower Upper

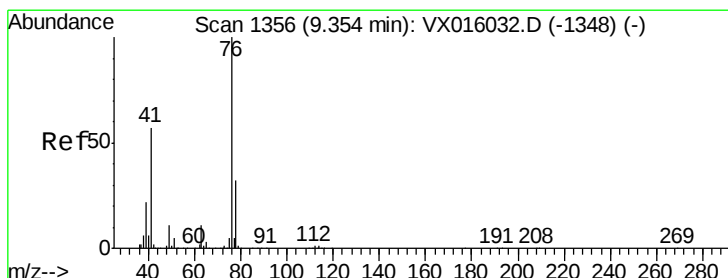
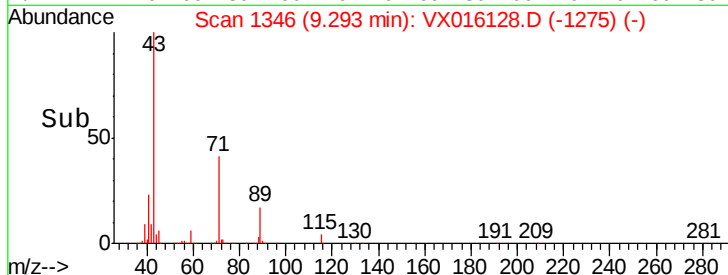
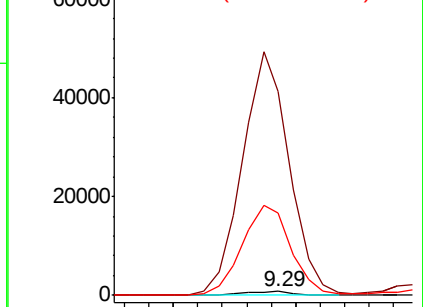
69 100

41 5572.2 52.2 78.4#

39 2179.7 28.2 42.4#



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



#57

1,3-Dichloropropane

Concen: 1.226 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016128.D

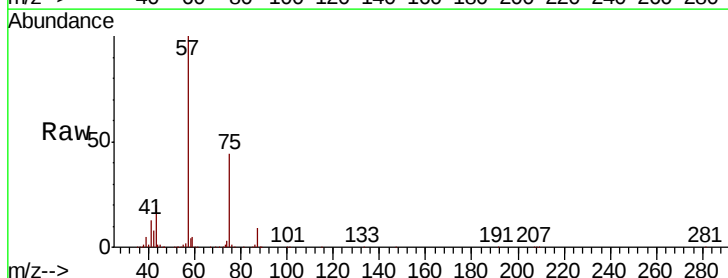
Acq: 08 May 2020 17:57

Tgt Ion: 76 Resp: 6859

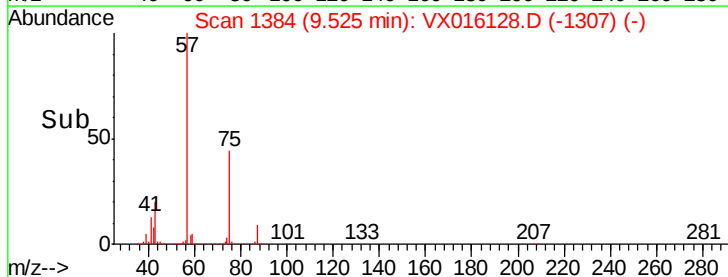
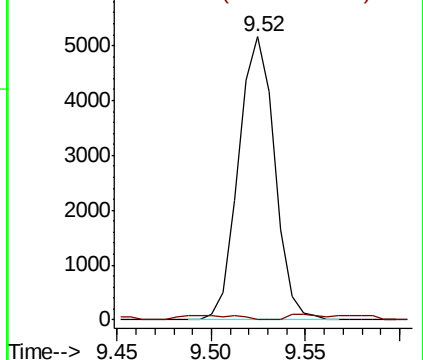
Ion Ratio Lower Upper

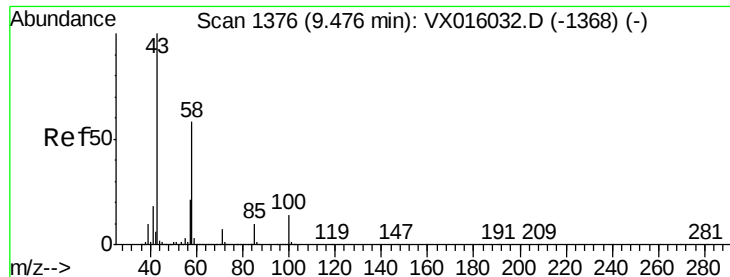
76 100

78 0.0 25.9 38.9#



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

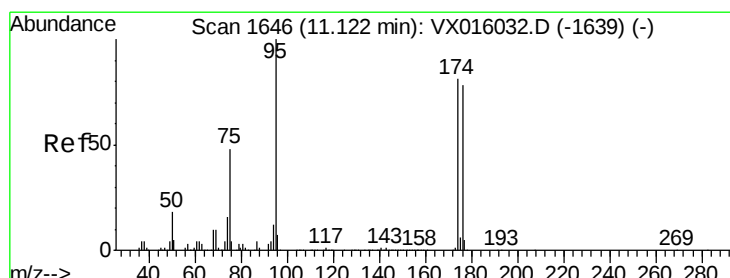
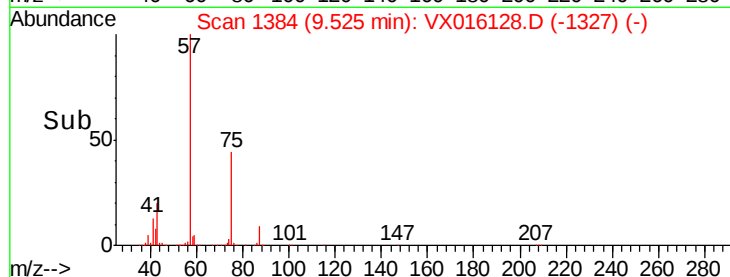
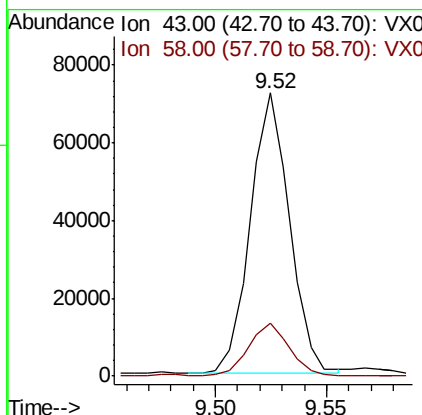
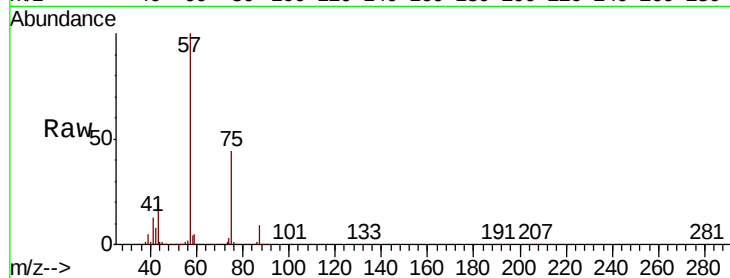




#59
2-Hexanone
Concen: 22.340 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX016128.D
Acq: 08 May 2020 17:57

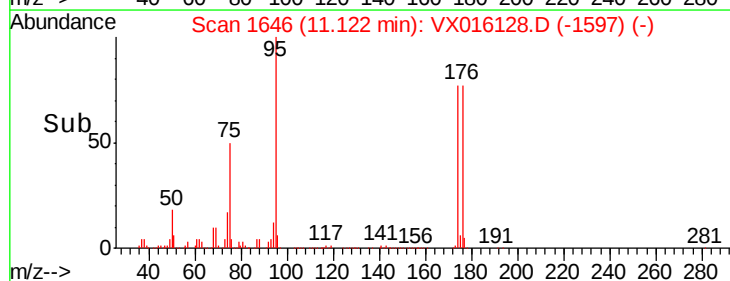
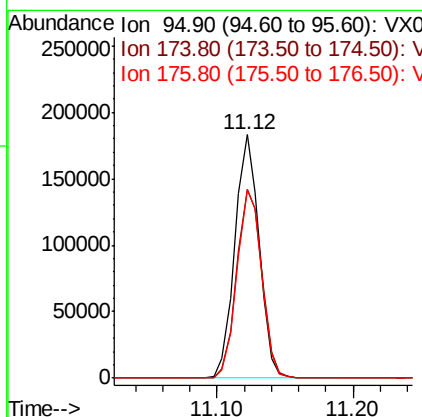
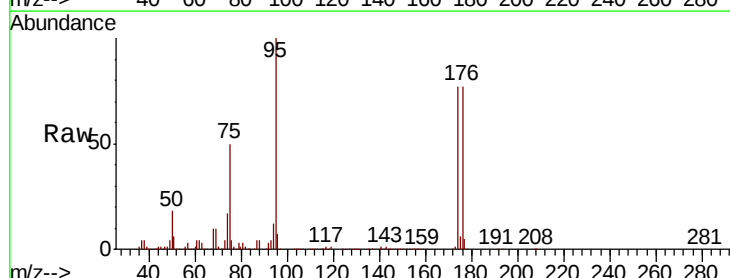
Instrument :
MSVOA_X
ClientSampleId :

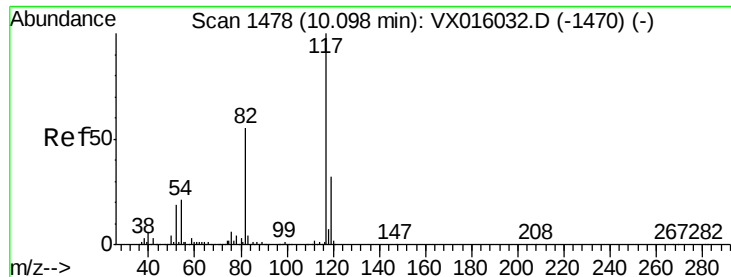
Tot Ion: 43 Resp: 88721
Ion Ratio Lower Upper
43 100
58 19.3 28.6 85.9#



#62
4-Bromofluorobenzene
Concen: 53.823 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016128.D
Acq: 08 May 2020 17:57

Tgt Ion: 95 Resp: 226868
Ion Ratio Lower Upper
95 100
174 80.4 0.0 159.4
176 78.8 0.0 157.6

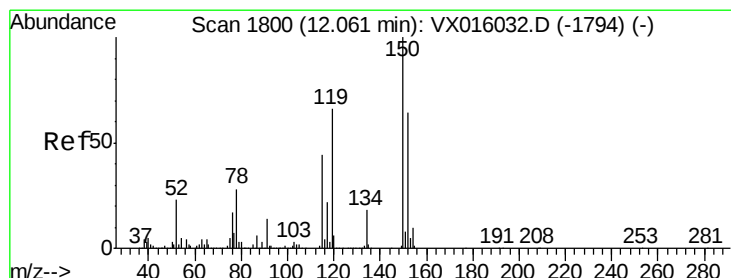
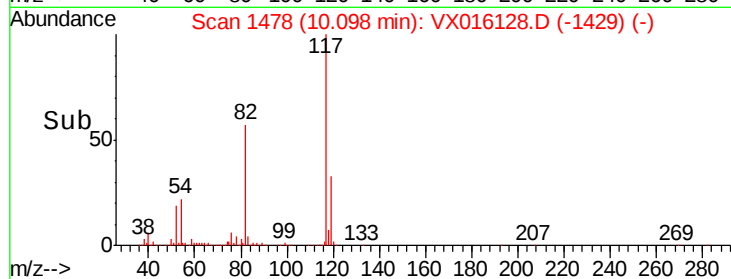
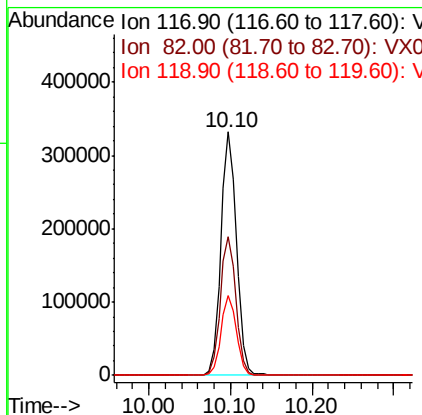
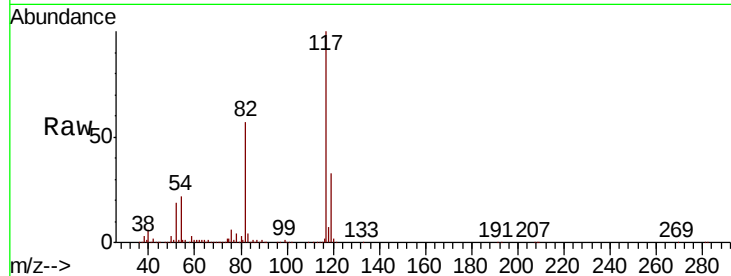




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016128.D
Acq: 08 May 2020 17:57

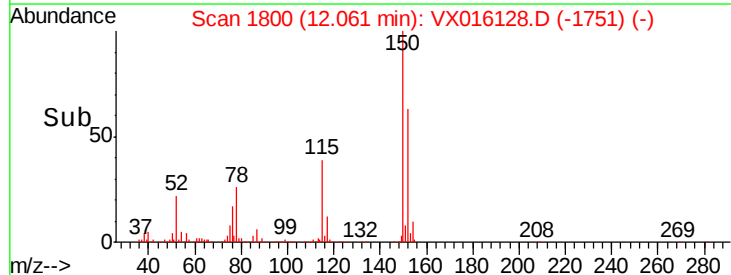
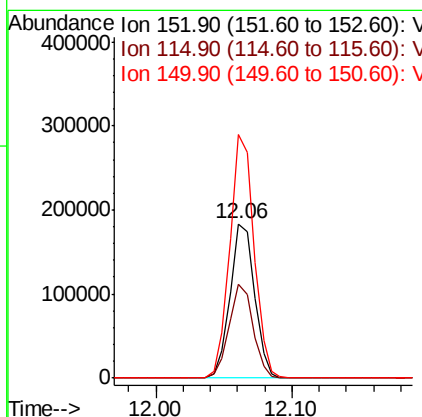
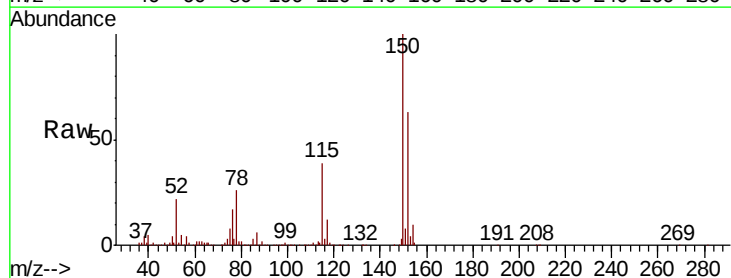
Instrument :
MSVOA_X
ClientSampled :

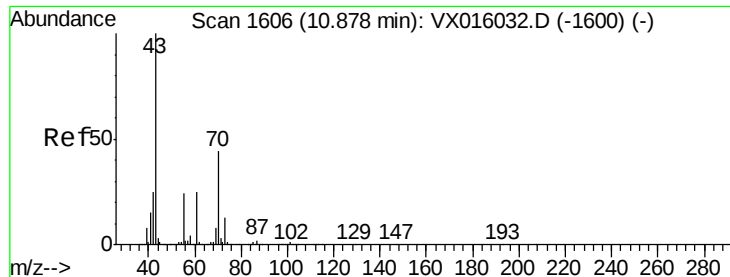
Tot Ion	Ratio	Lower	Upper
117	100		
82	57.0	44.4	66.6
119	33.0	25.5	38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX016128.D
Acq: 08 May 2020 17:57

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.0	41.3	124.1
150	156.2	0.0	352.2





#74

N-amvl acetate

Concen: 0.572 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX016128.D

Acq: 08 May 2020 17:57

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 4459

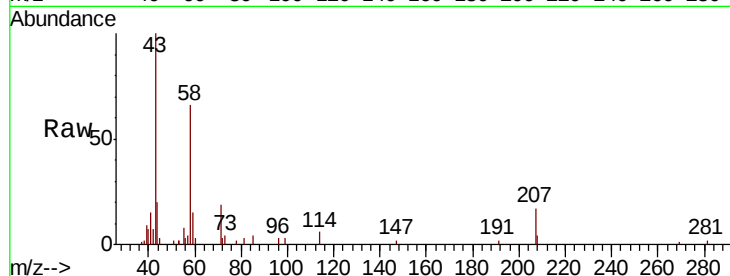
Ion Ratio Lower Upper

43 100

70 0.0 36.5 54.7#

55 10.3 19.7 29.5#

61 0.0 20.9 31.3#

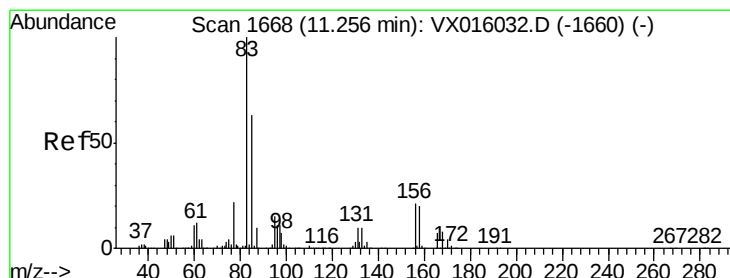
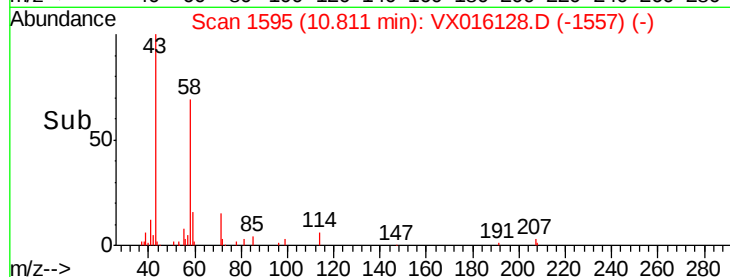
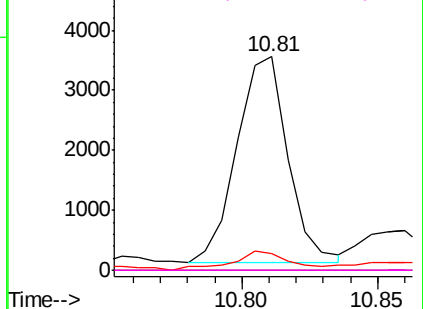


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#75

1,1,2,2-Tetrachloroethane

Concen: 2.055 ug/l

RT: 11.26 min Scan# 1668

Delta R.T. -0.00 min

Lab File: VX016128.D

Acq: 08 May 2020 17:57

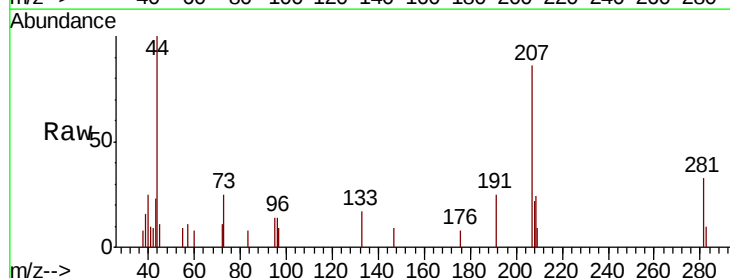
Tgt Ion: 83 Resp: 19

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

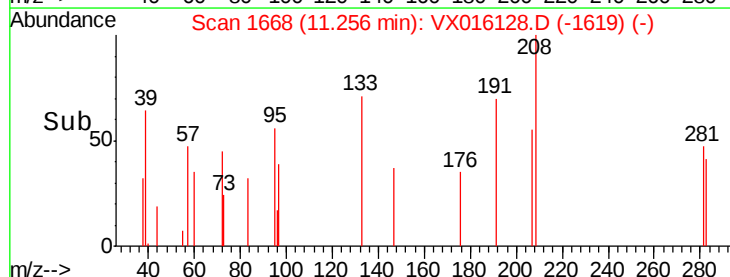
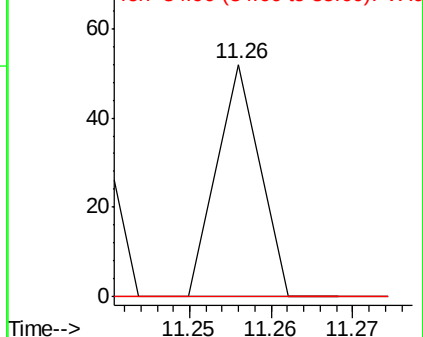
85 0.0 32.0 96.0#

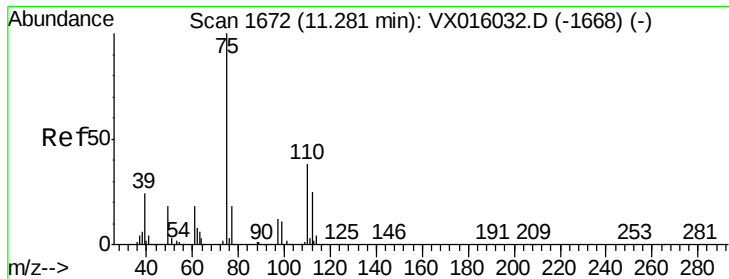


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 21.815 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016128.D

Acq: 08 May 2020 17:57

Instrument :

MSVOA_X

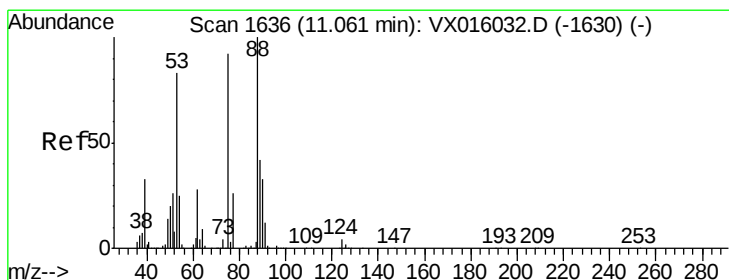
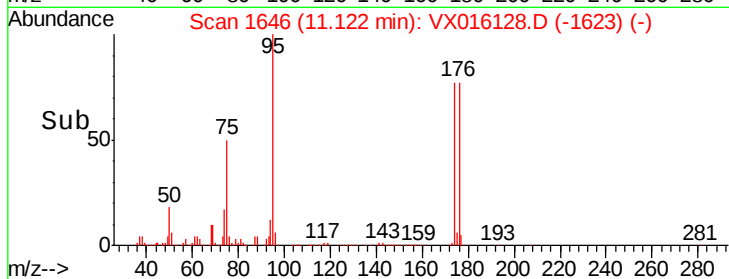
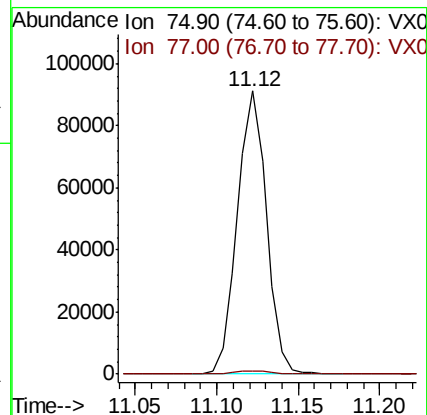
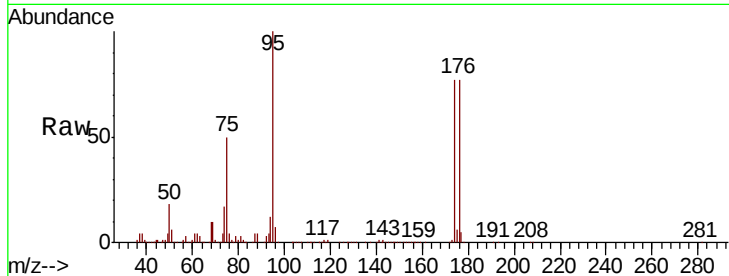
ClientSampled :

Tot Ion: 75 Resp: 113756

Ion Ratio Lower Upper

75 100

77 1.3 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 51.986 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016128.D

Acq: 08 May 2020 17:57

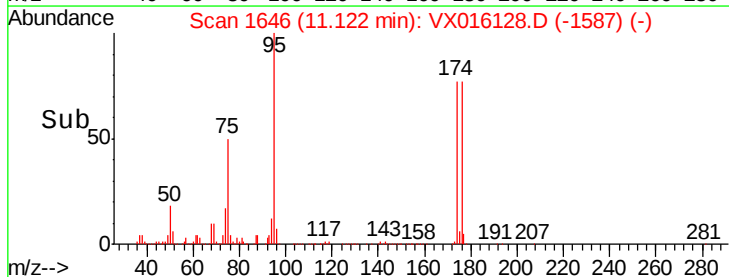
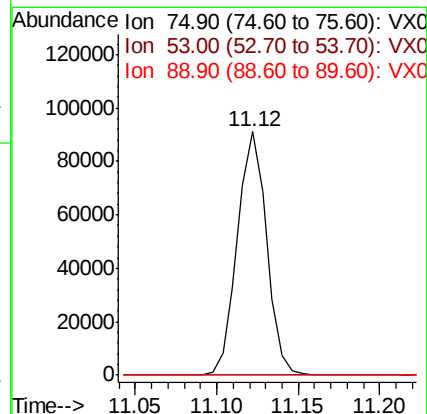
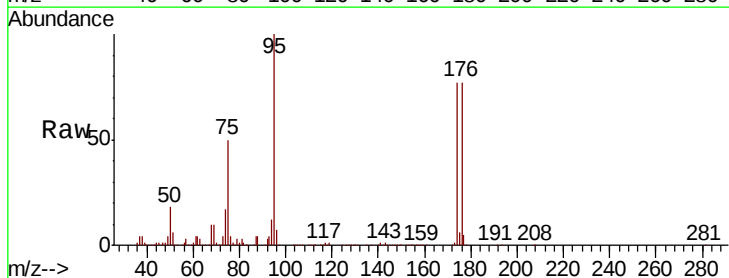
Tgt Ion: 75 Resp: 113756

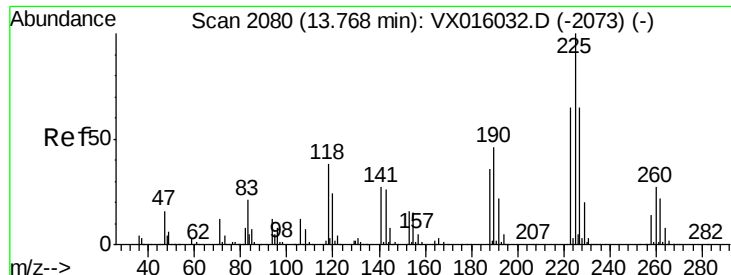
Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

89 0.0 36.7 55.1#





#94
 Hexachlorobutadiene
 Concen: 0.532 ug/l
 RT: 13.76 min Scan# 2079
 Delta R.T. -0.01 min
 Lab File: VX016128.D
 Acq: 08 May 2020 17:57

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
225	100		
223	0.0	32.3	96.9#
227	0.0	31.8	95.4#

