

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051820\
 Data File : VX016306.D
 Acq On : 18 May 2020 18:04
 Operator : JC/SP
 Sample : L2649-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0684

Quant Time: May 19 00:48:47 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	282140	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	452195	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	441852	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	230245	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	158995	42.82	ug/l	0.00
Spiked Amount						
			Recovery	=	85.64%	
35) Dibromofluoromethane	5.46	113	129652	45.26	ug/l	0.00
Spiked Amount						
			Recovery	=	90.52%	
50) Toluene-d8	8.70	98	563680	51.07	ug/l	0.00
Spiked Amount						
			Recovery	=	102.14%	
62) 4-Bromofluorobenzene	11.12	95	224482	53.47	ug/l	0.00
Spiked Amount						
			Recovery	=	106.94%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	6494	2.175	ug/l	99
4) Vinyl Chloride	1.39	62	2007	0.542	ug/l	97
11) Tert butyl alcohol	3.01	59	548	0.584	ug/l #	92
13) Acrolein	2.28	56	621	1.057	ug/l #	64
16) Acetone	2.42	43	3698	2.232	ug/l	89
17) Carbon Disulfide	2.55	76	1800	Below Cal	#	86
21) trans-1,2-Dichloroethene	3.14	96	807	0.247	ug/l #	64
25) 2-Butanone	4.65	43	872	0.327	ug/l #	89
27) cis-1,2-Dichloroethene	4.57	96	2158	0.604	ug/l	69
29) Tetrahydrofuran	5.10	42	484	0.274	ug/l #	35
31) Cyclohexane	5.63	56	5151	0.999	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	19673	4.420	ug/l #	49
38) Carbon Tetrachloride	5.63	117	26383	5.831	ug/l #	14
44) Trichloroethene	7.19	130	1301	0.281	ug/l	86
75) 1,1,2,2-Tetrachloroethane	11.15	83	23	2.056	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	107838	20.640	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	107838	49.186	ug/l #	13
94) Hexachlorobutadiene	13.76	225	192	0.603	ug/l #	52

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016306.D

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Instrument :

MSVOA_X

ClientSampleId :

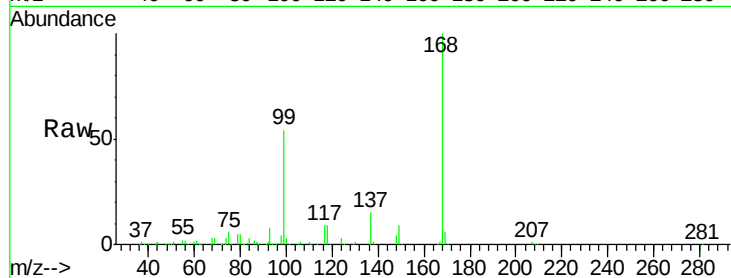
S32-0684

Tot Ion:168 Resp: 282140

Ion Ratio Lower Upper

168 100

99 53.7 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

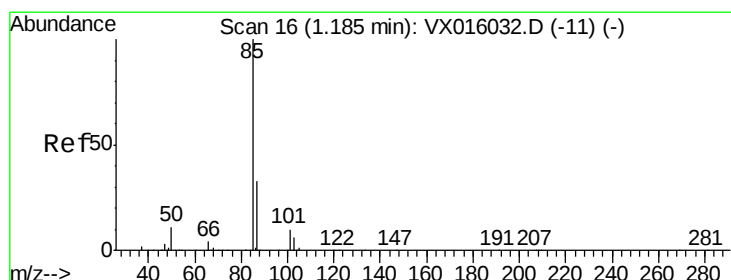
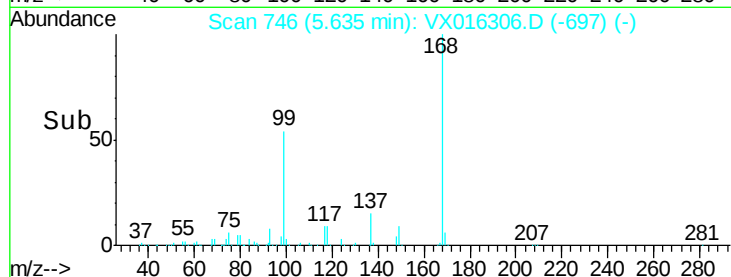
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 2.175 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX016306.D

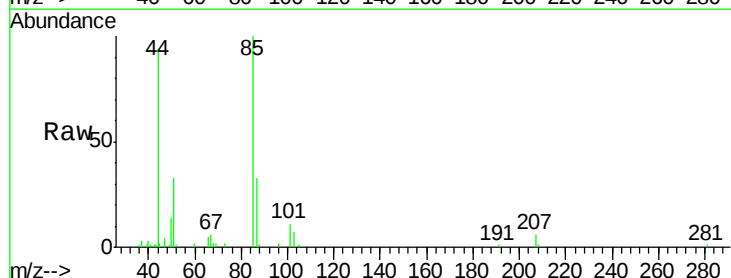
Acq: 18 May 2020 18:04

Tgt Ion: 85 Resp: 6494

Ion Ratio Lower Upper

85 100

87 33.4 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

8000

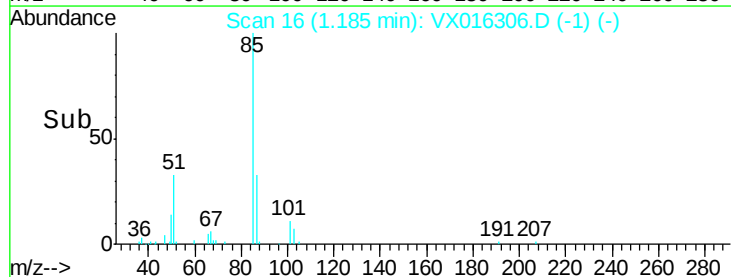
6000

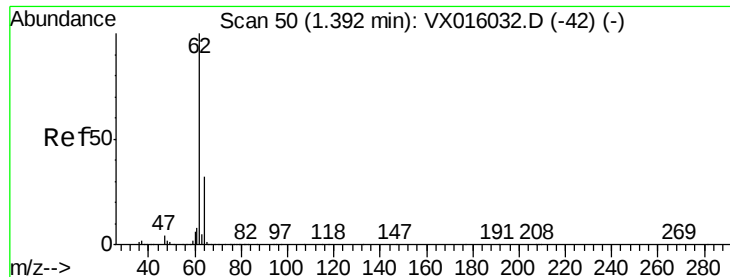
4000

2000

0

Time-->





#4

Vinyl Chloride

Concen: 0.542 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016306.D

Acq: 18 May 2020 18:04

Instrument :

MSVOA_X

ClientSampled :

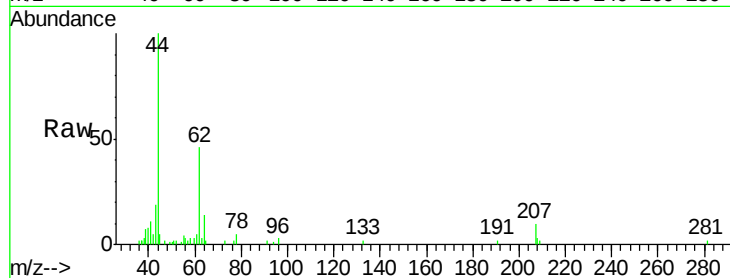
S32-0684

Tot Ion: 62 Resp: 2007

Ion Ratio Lower Upper

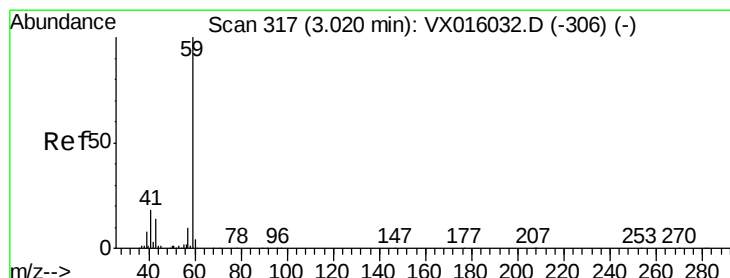
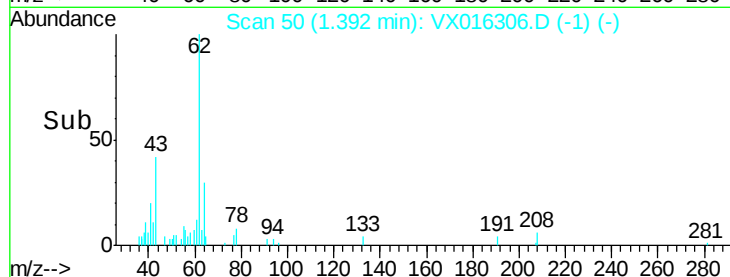
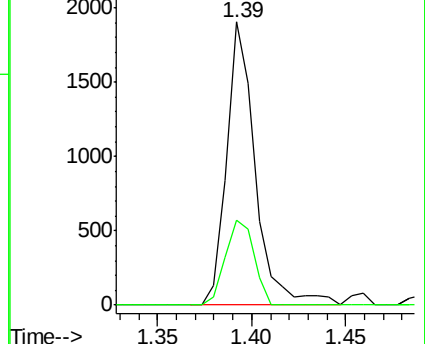
62 100

64 30.2 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#11

Tert butyl alcohol

Concen: 0.584 ug/l

RT: 3.01 min Scan# 316

Delta R.T. -0.01 min

Lab File: VX016306.D

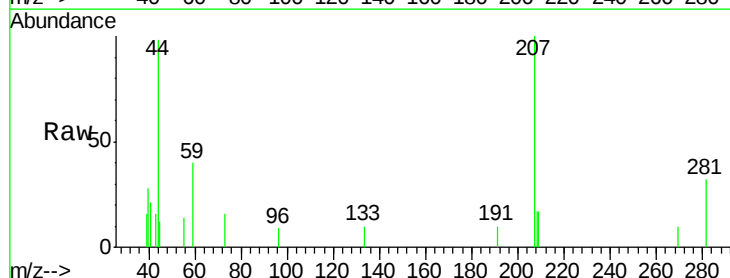
Acq: 18 May 2020 18:04

Tgt Ion: 59 Resp: 548

Ion Ratio Lower Upper

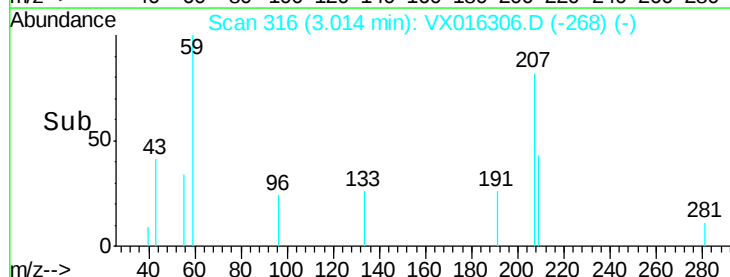
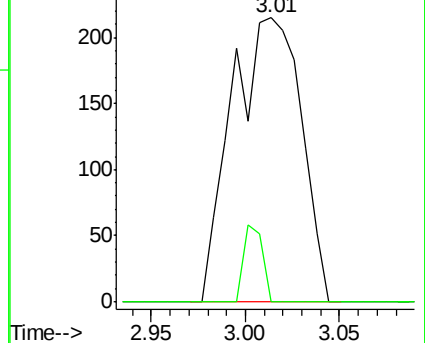
59 100

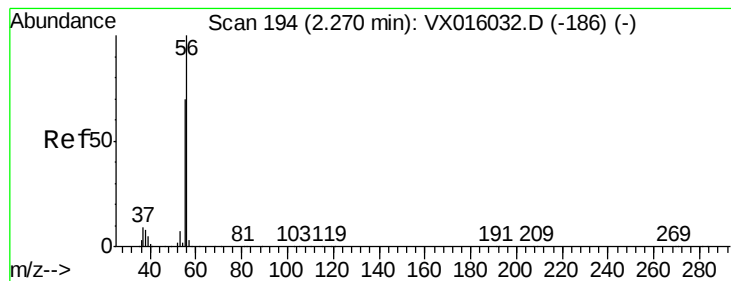
57 7.3 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.057 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016306.D

Acq: 18 May 2020 18:04

Instrument :

MSVOA_X

ClientSampleId :

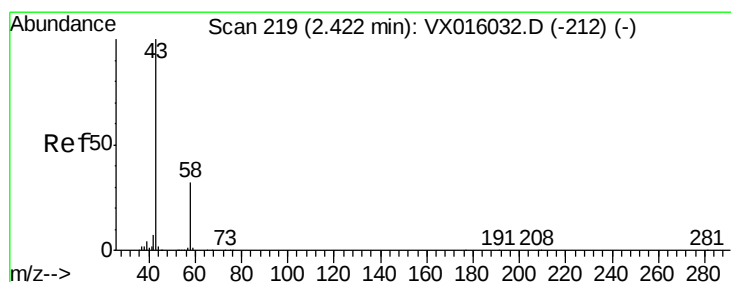
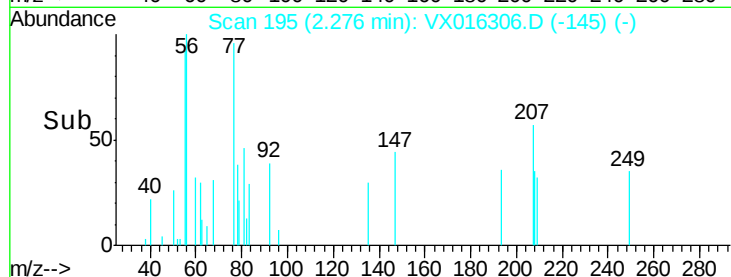
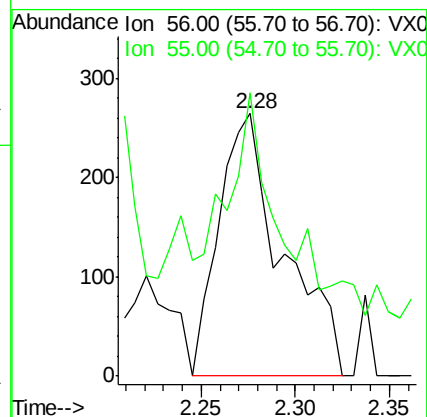
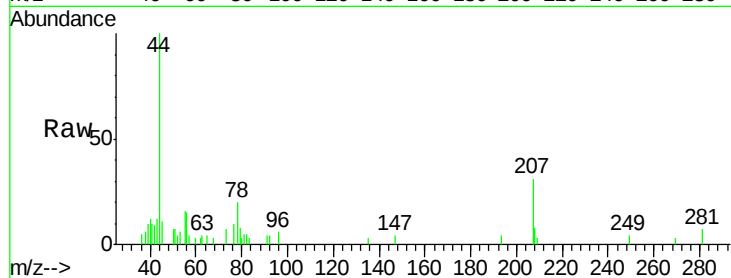
S32-0684

Tot Ion: 56 Resp: 621

Ion Ratio Lower Upper

56 100

55 100.0 56.5 84.7#



#16

Acetone

Concen: 2.232 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016306.D

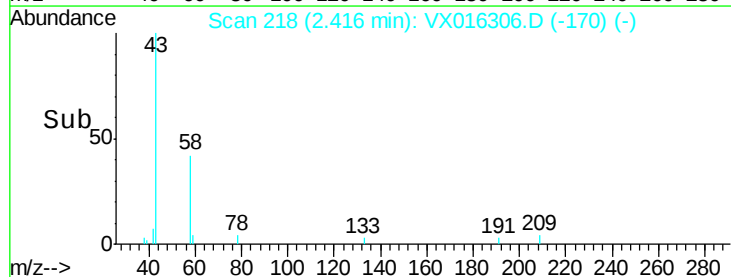
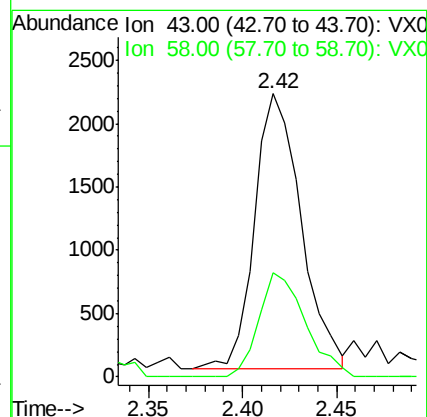
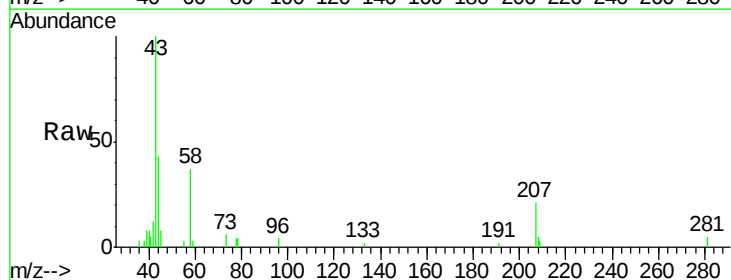
Acq: 18 May 2020 18:04

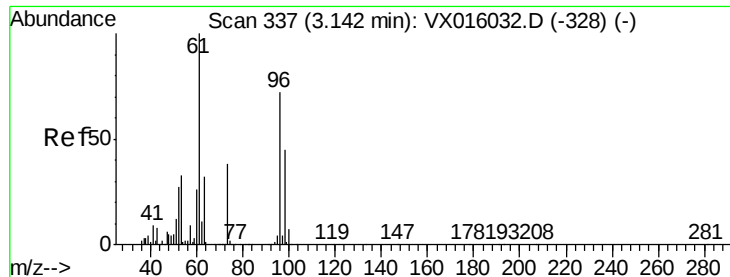
Tgt Ion: 43 Resp: 3698

Ion Ratio Lower Upper

43 100

58 38.0 25.4 38.0





#21

trans-1,2-Dichloroethene

Concen: 0.247 ug/l

RT: 3.14 min Scan# 336

Delta R.T. -0.01 min

Lab File: VX016306.D

Acq: 18 May 2020 18:04

Instrument :

MSVOA_X

ClientSampleId :

S32-0684

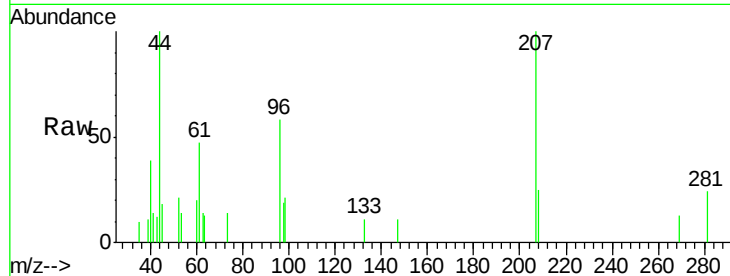
Tot Ion: 96 Resp: 807

Ion Ratio Lower Upper

96 100

61 81.0 111.2 166.8#

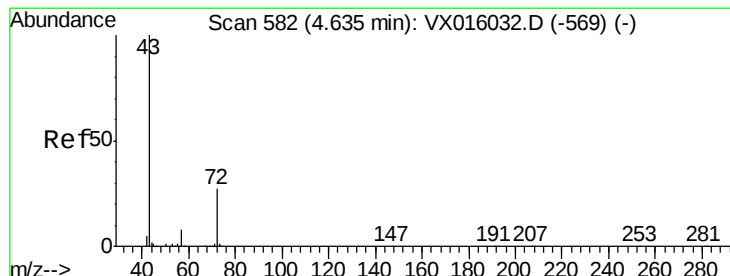
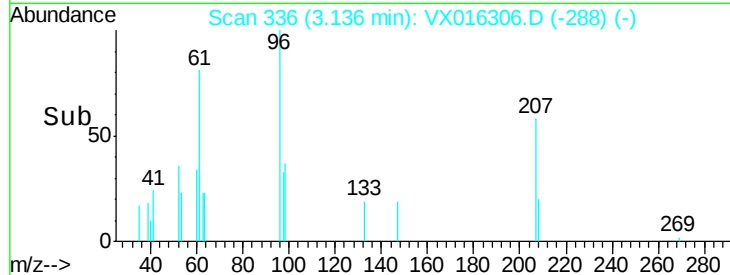
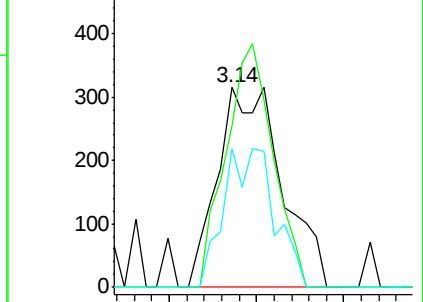
98 69.5 50.2 75.4



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#25

2-Butanone

Concen: 0.327 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX016306.D

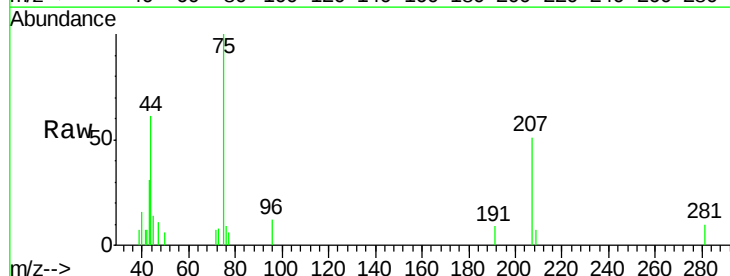
Acq: 18 May 2020 18:04

Tgt Ion: 43 Resp: 872

Ion Ratio Lower Upper

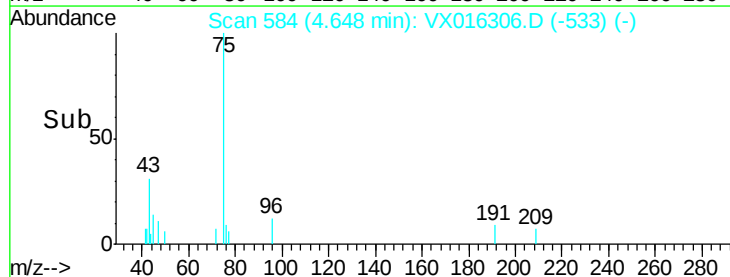
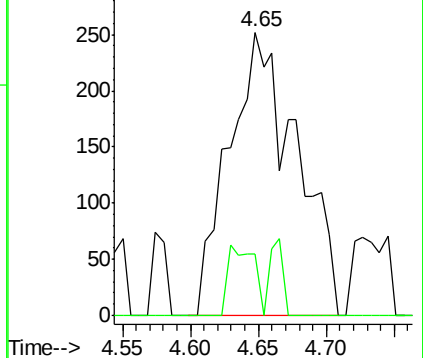
43 100

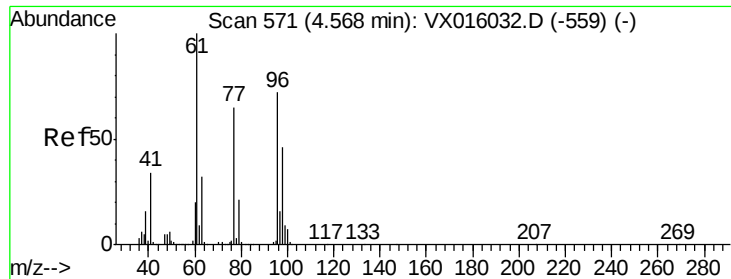
72 21.8 21.8 32.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



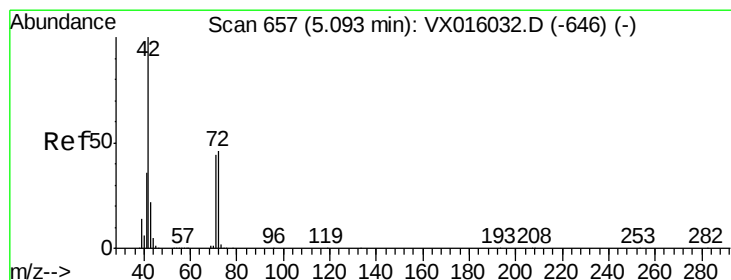
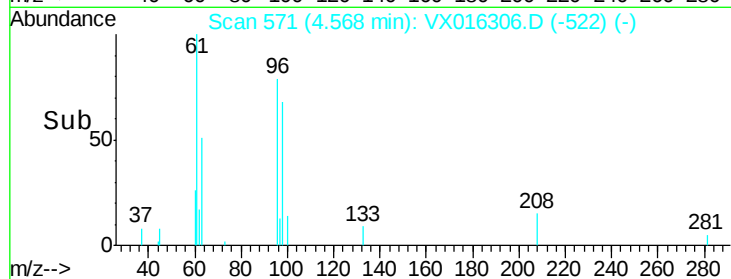
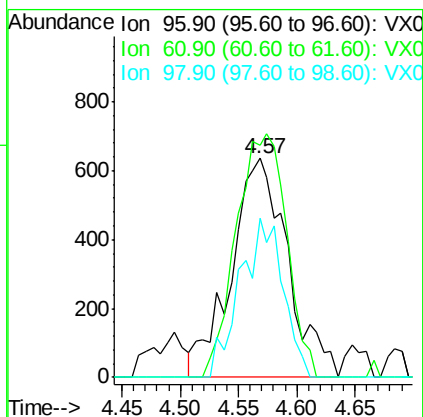
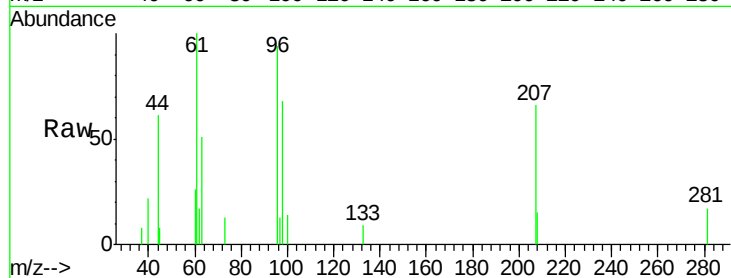


#27

cis-1,2-Dichloroethene
 Concen: 0.604 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. -0.00 min
 Lab File: VX016306.D
 Acq: 18 May 2020 18:04

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0684

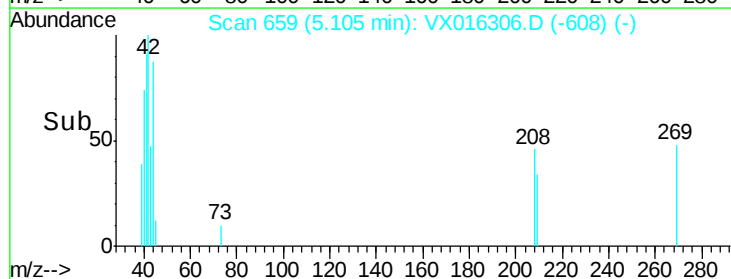
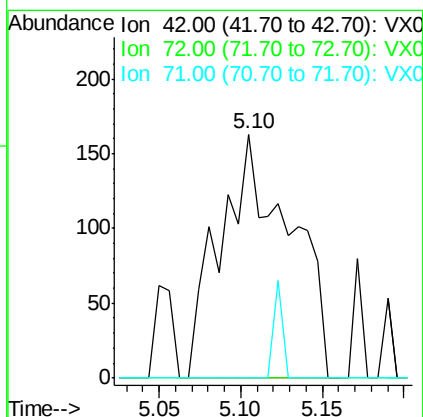
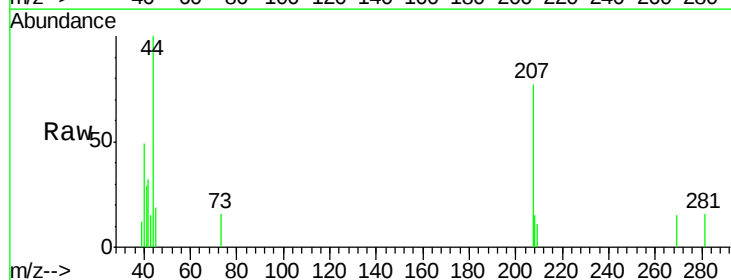
Tot Ion: 96 Resp: 2158
 Ion Ratio Lower Upper
 96 100
 61 99.1 0.0 296.2
 98 54.9 0.0 129.4

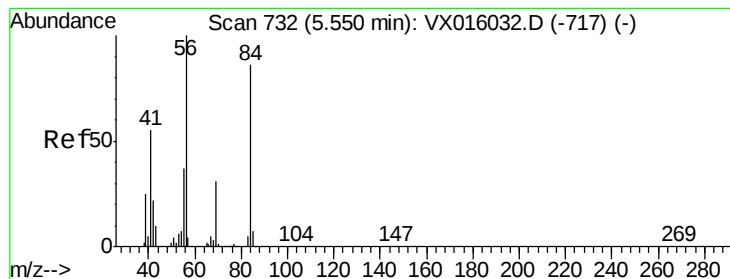


#29

Tetrahydrofuran
 Concen: 0.274 ug/l
 RT: 5.10 min Scan# 659
 Delta R.T. 0.01 min
 Lab File: VX016306.D
 Acq: 18 May 2020 18:04

Tgt Ion: 42 Resp: 484
 Ion Ratio Lower Upper
 42 100
 72 0.0 37.1 55.7#
 71 5.0 34.5 51.7#





#31

Cyclohexane

Concen: 0.999 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX016306.D

Acq: 18 May 2020 18:04

Instrument :

MSVOA_X

ClientSampleId :

S32-0684

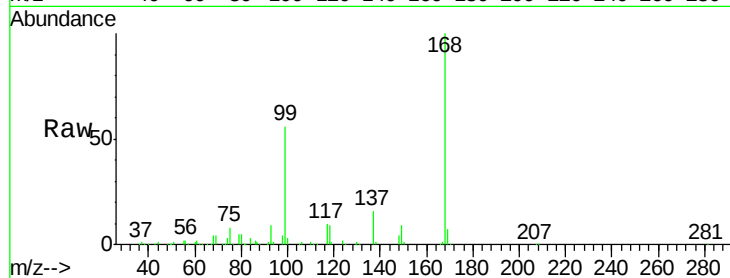
Tot Ion: 56 Resp: 5151

Ion Ratio Lower Upper

56 100

69 195.0 25.0 37.6#

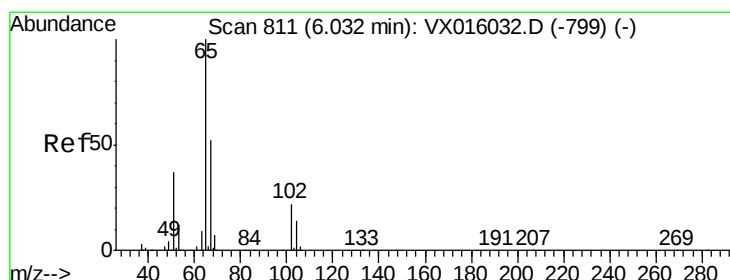
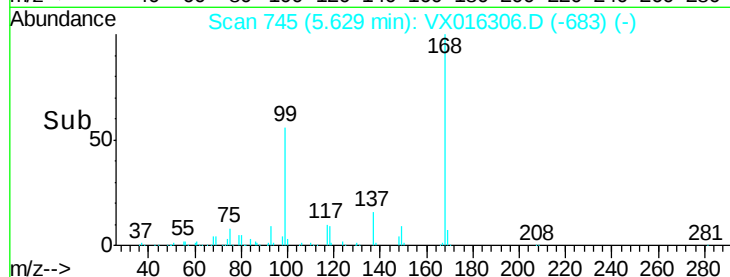
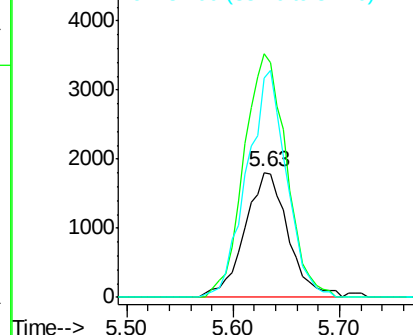
84 175.5 69.0 103.6#



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: 42.825 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016306.D

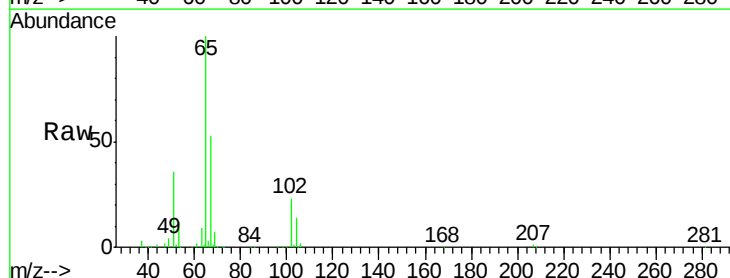
Acq: 18 May 2020 18:04

Tgt Ion: 65 Resp: 158995

Ion Ratio Lower Upper

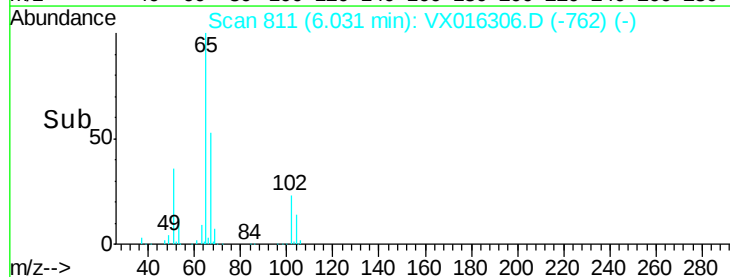
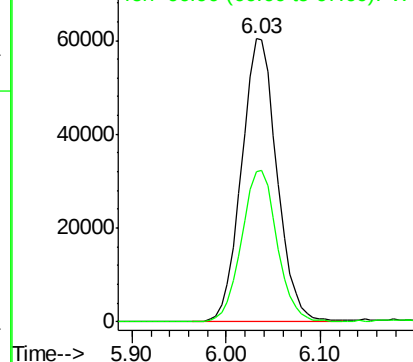
65 100

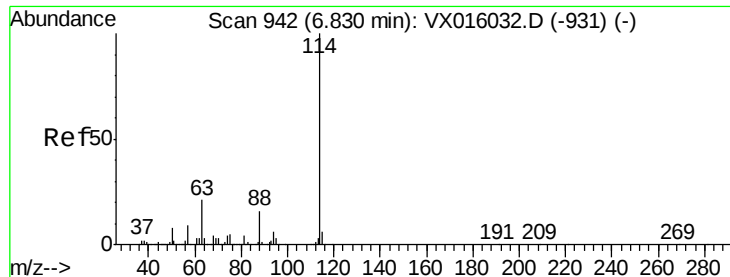
67 53.7 0.0 104.8



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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016306.D

Acq: 18 May 2020 18:04

Instrument :

MSVOA_X

ClientSampleId :

S32-0684

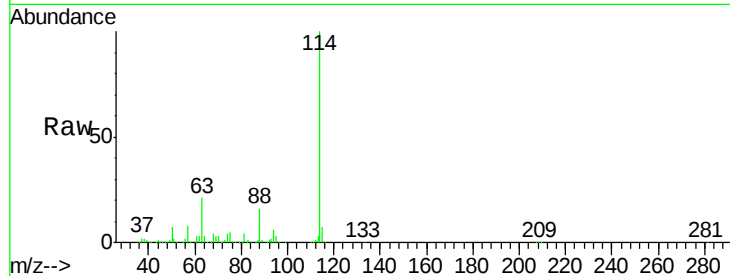
Tot Ion:114 Resp: 452195

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.8

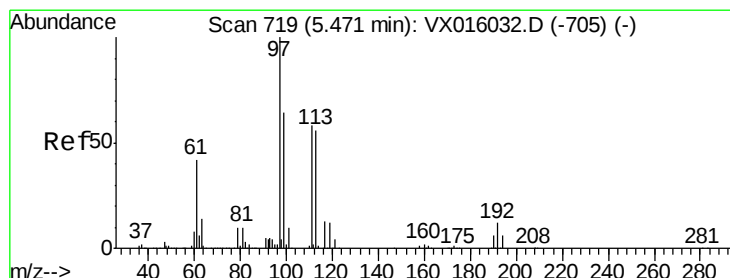
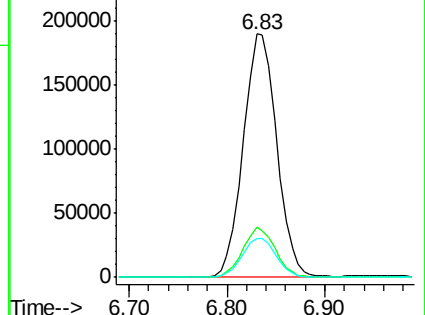
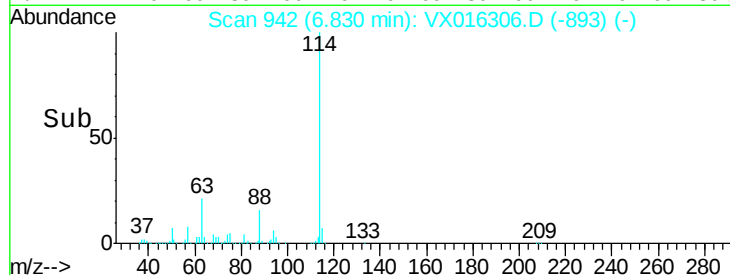
88 15.9 0.0 31.4



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: 45.256 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX016306.D

Acq: 18 May 2020 18:04

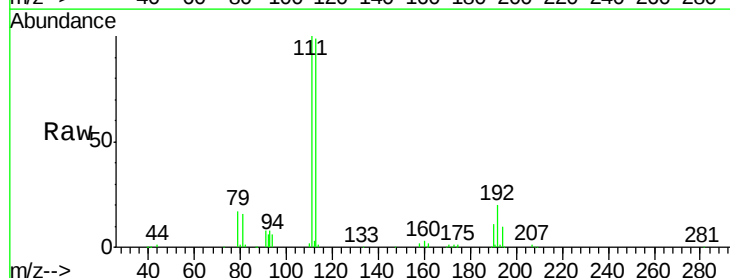
Tgt Ion:113 Resp: 129652

Ion Ratio Lower Upper

113 100

111 102.9 81.6 122.4

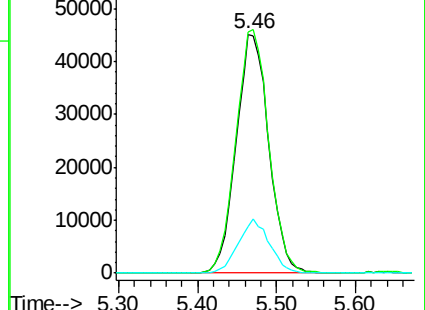
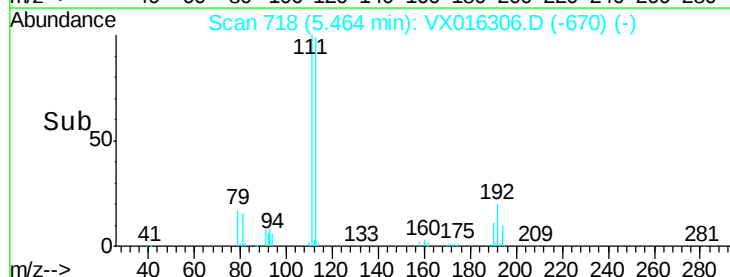
192 21.7 17.0 25.4

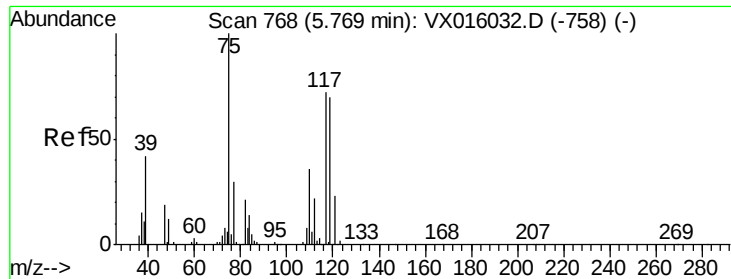


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

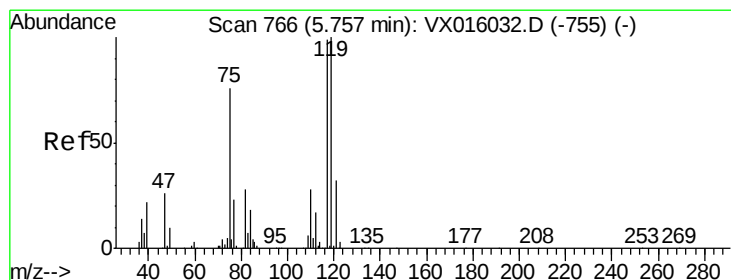
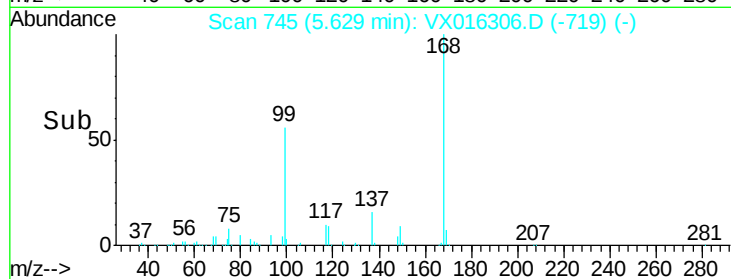
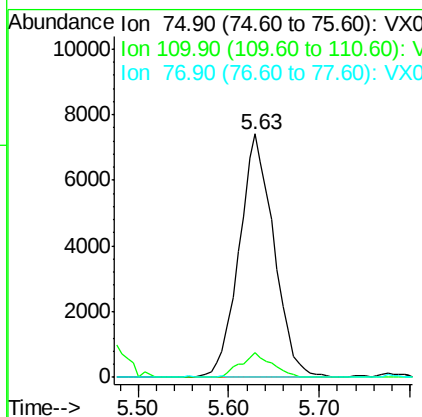
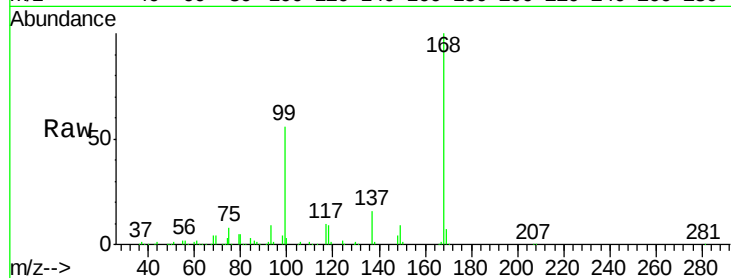




#36
 1,1-Dichloropropene
 Concen: 4.420 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016306.D
 Acq: 18 May 2020 18:04

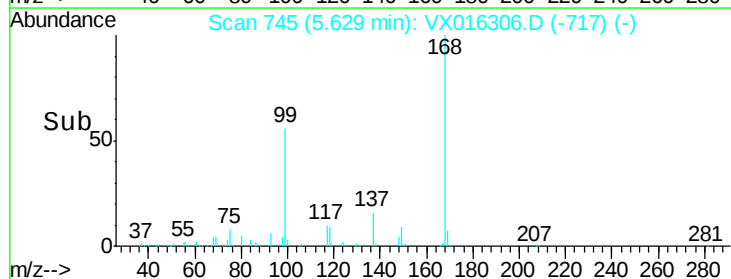
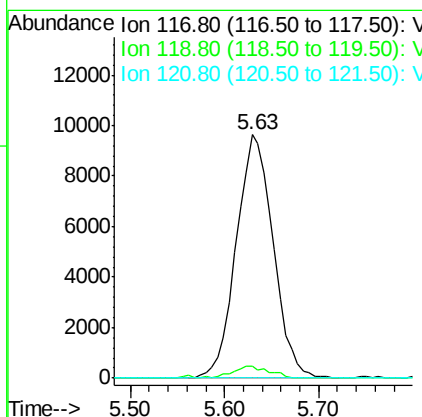
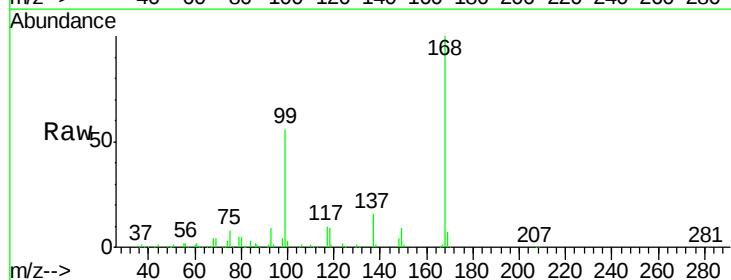
Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0684

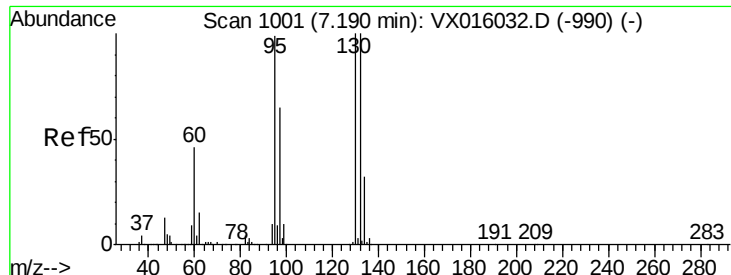
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.1	54.1#
77	0.0	25.0	37.6#



#38
 Carbon Tetrachloride
 Concen: 5.831 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX016306.D
 Acq: 18 May 2020 18:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	80.3	120.5#
121	0.0	25.7	38.5#





#44

Trichloroethene

Concen: 0.281 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX016306.D

Acq: 18 May 2020 18:04

Instrument :

MSVOA_X

ClientSampleId :

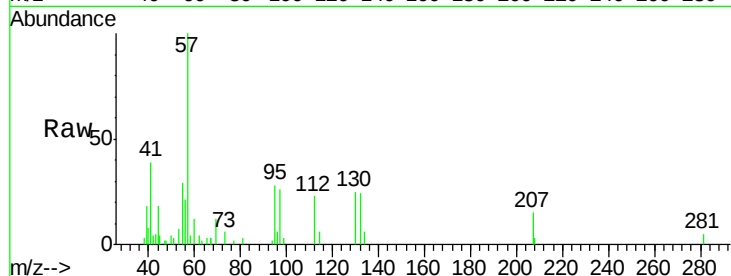
S32-0684

Tot Ion:130 Resp: 1301

Ion Ratio Lower Upper

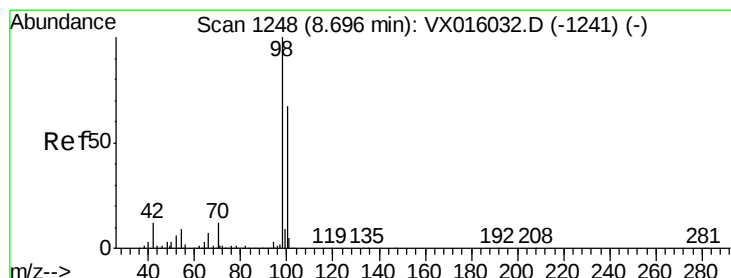
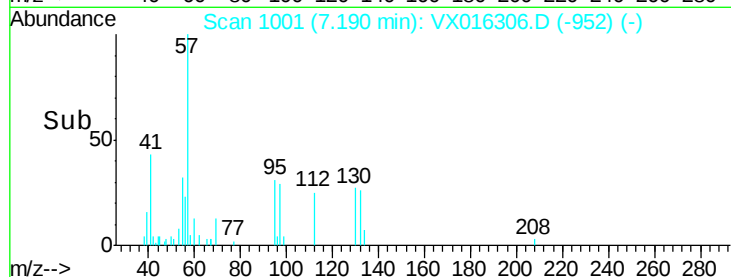
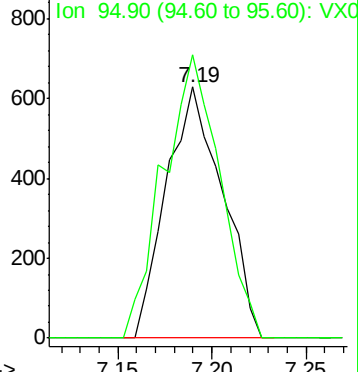
130 100

95 112.6 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 51.065 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016306.D

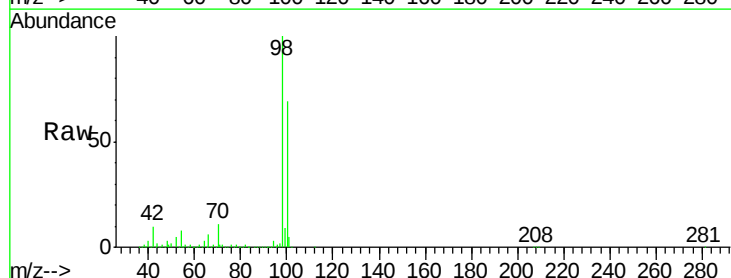
Acq: 18 May 2020 18:04

Tgt Ion: 98 Resp: 563680

Ion Ratio Lower Upper

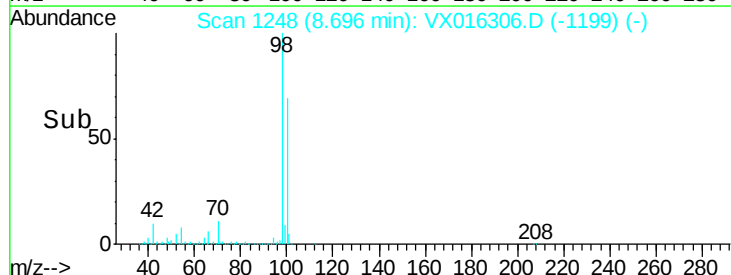
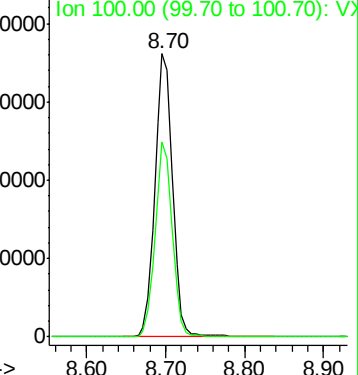
98 100

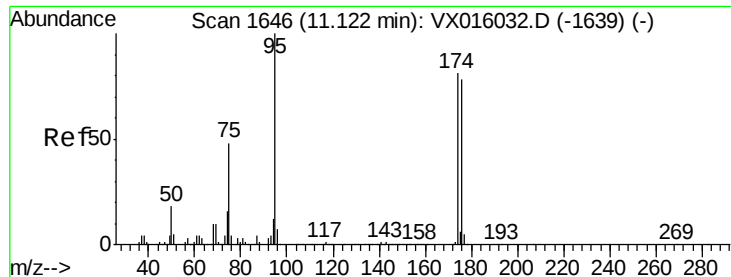
100 67.2 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 53.467 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016306.D

Acq: 18 May 2020 18:04

Instrument :

MSVOA_X

ClientSampleId :

S32-0684

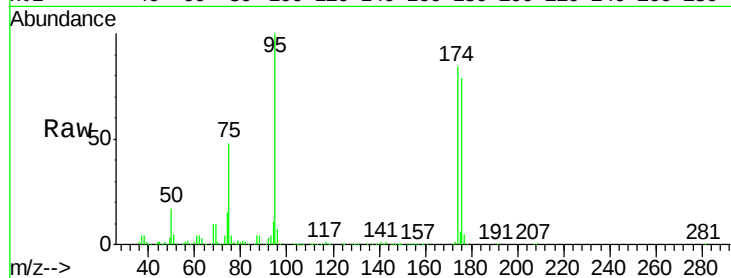
Tot Ion: 95 Resp: 224482

Ion Ratio Lower Upper

95 100

174 81.8 0.0 159.4

176 78.6 0.0 157.6

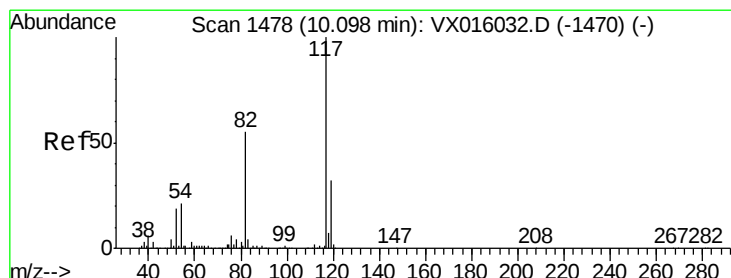
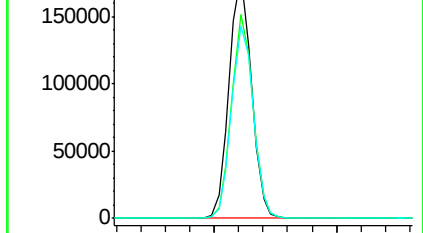
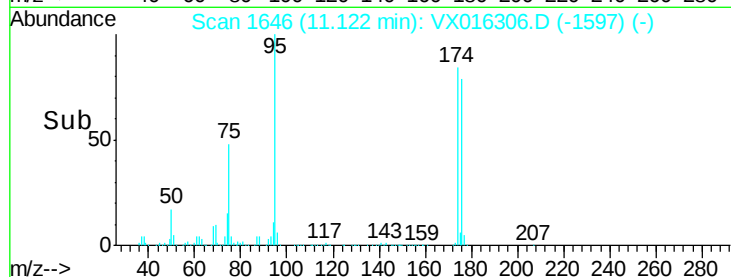


Abundance Ion 94.90 (94.60 to 95.60): VX016306.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX016306.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX016306.D (-1639) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016306.D

Acq: 18 May 2020 18:04

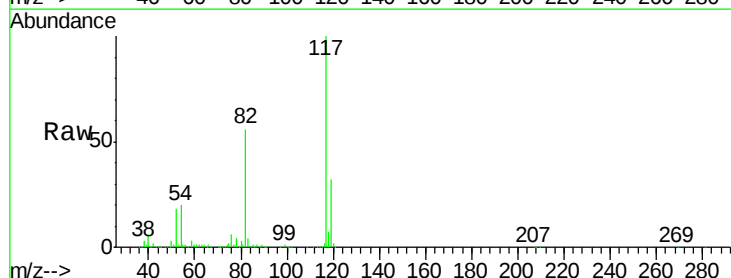
Tgt Ion: 117 Resp: 441852

Ion Ratio Lower Upper

117 100

82 55.7 44.4 66.6

119 32.4 25.5 38.3

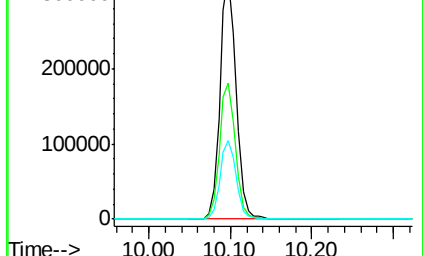
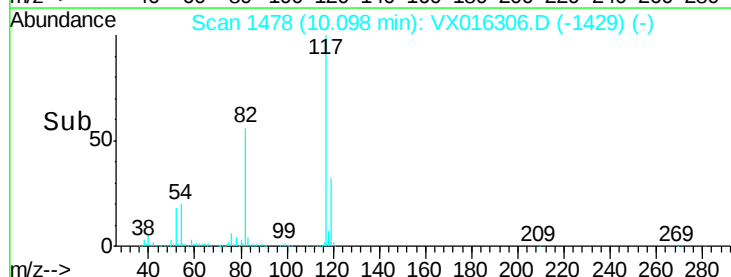


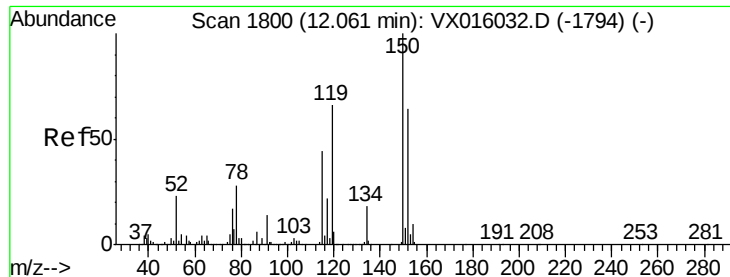
Abundance Ion 116.90 (116.60 to 117.60): VX016306.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016306.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016306.D (-1429) (-)

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016306.D

Acq: 18 May 2020 18:04

Instrument :

MSVOA_X

ClientSampleId :

S32-0684

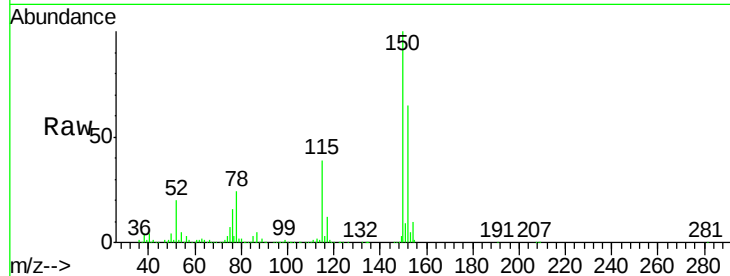
Tot Ion:152 Resp: 230245

Ion Ratio Lower Upper

152 100

115 58.3 41.3 124.1

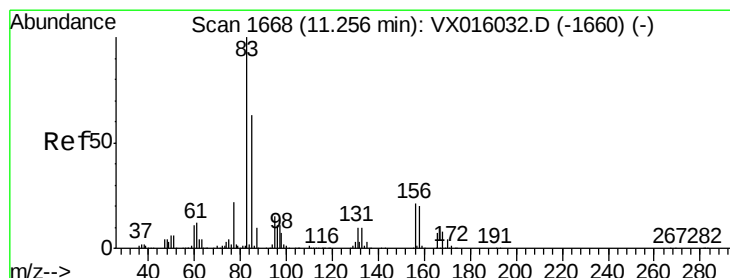
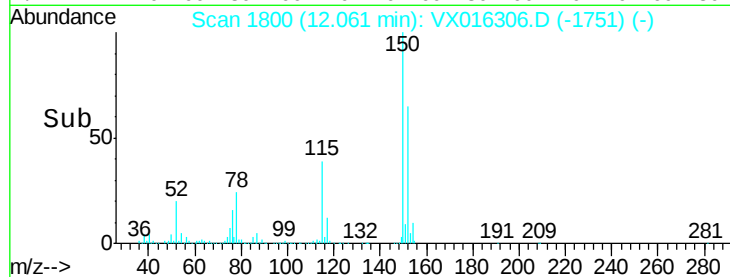
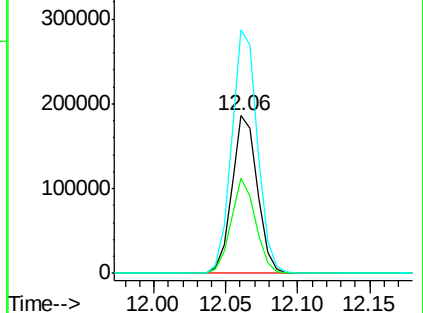
150 156.2 0.0 352.2



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



#75

1,1,2,2-Tetrachloroethane

Concen: 2.056 ug/l

RT: 11.15 min Scan# 1651

Delta R.T. -0.10 min

Lab File: VX016306.D

Acq: 18 May 2020 18:04

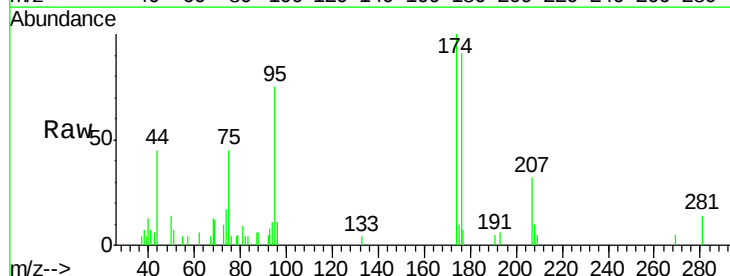
Tgt Ion: 83 Resp: 23

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

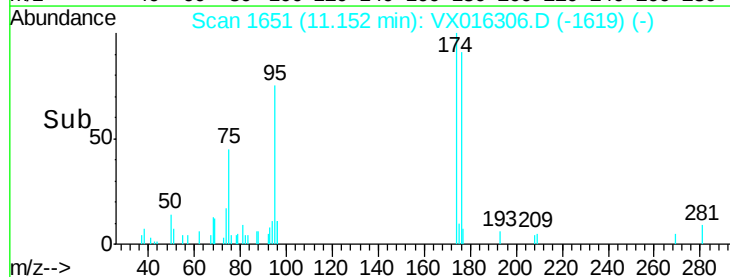
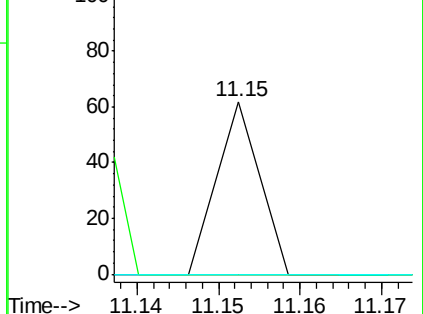
85 0.0 32.0 96.0#

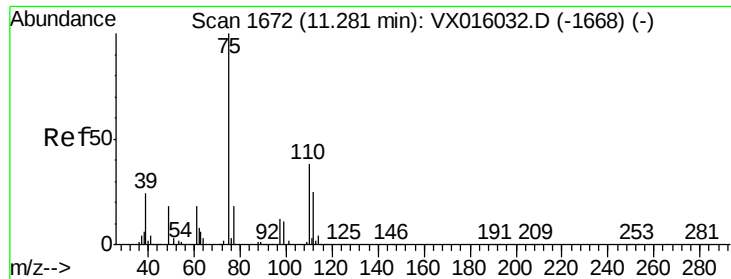


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

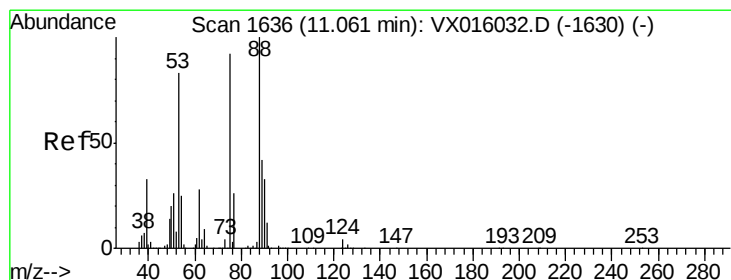
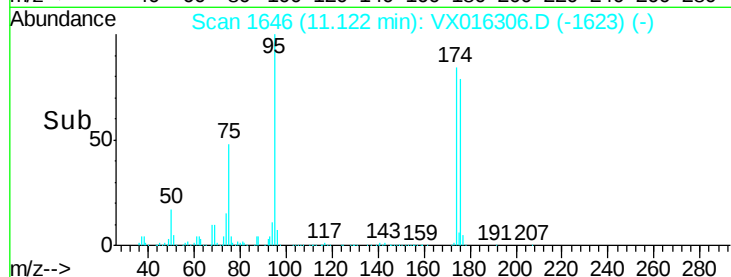
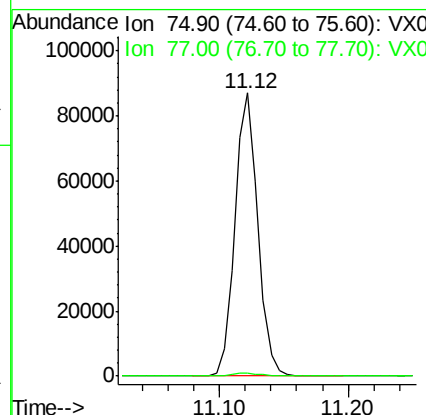
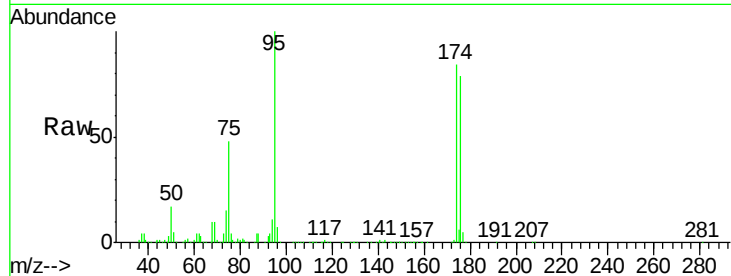




#76
 1,2,3-Trichloropropane
 Concen: 20.640 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX016306.D
 Acq: 18 May 2020 18:04

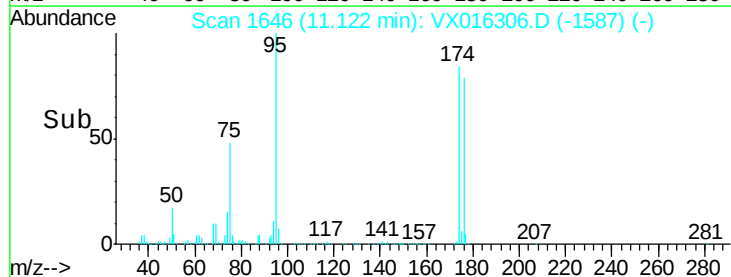
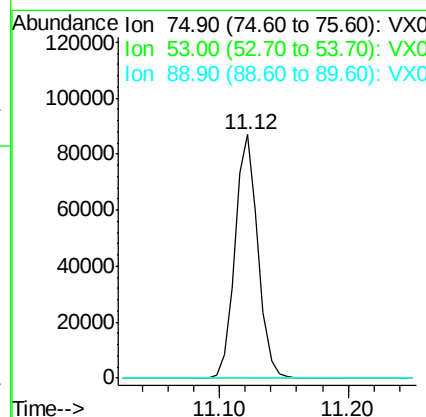
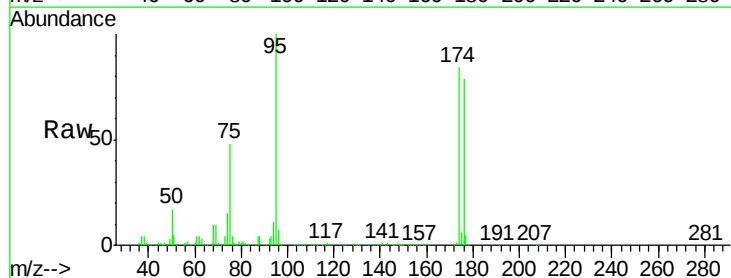
Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0684

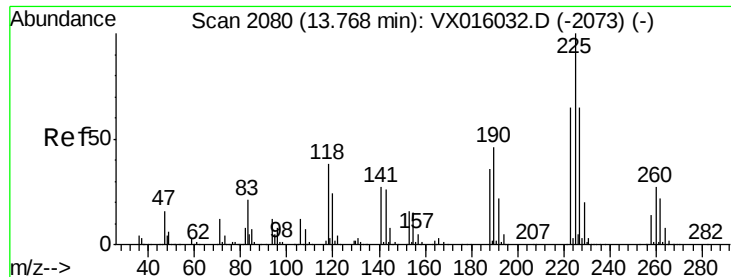
Tot Ion: 75 Resp: 107838
 Ion Ratio Lower Upper
 75 100
 77 1.4 21.2 63.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 49.186 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX016306.D
 Acq: 18 May 2020 18:04

Tgt Ion: 75 Resp: 107838
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.1 109.7#
 89 0.0 36.7 55.1#





#94

Hexachlorobutadiene

Concen: 0.603 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX016306.D

Acq: 18 May 2020 18:04

Instrument :

MSVOA_X

ClientSampleId :

S32-0684

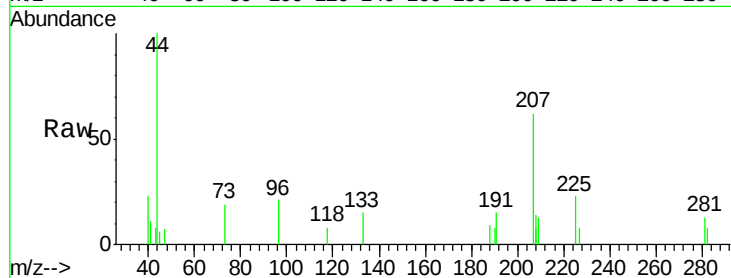
Tot Ion: 225 Resp: 192

Ion Ratio Lower Upper

225 100

223 41.1 32.3 96.9

227 12.0 31.8 95.4



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

