

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061720\
 Data File : VX016831.D
 Acq On : 17 Jun 2020 20:44
 Operator : JC/SP
 Sample : L2984-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-TB-2020-1RE

Quant Time: Jun 18 00:49:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061520W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 16 02:02:35 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	276502	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	405165	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	434865	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	205059	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	166101	53.41	ug/l	0.00
Spiked Amount			Recovery	=	106.82%	
35) Dibromofluoromethane	5.46	113	130607	52.25	ug/l	0.00
Spiked Amount			Recovery	=	104.50%	
50) Toluene-d8	8.70	98	469011	50.88	ug/l	0.00
Spiked Amount			Recovery	=	101.76%	
62) 4-Bromofluorobenzene	11.12	95	226473	64.24	ug/l	0.00
Spiked Amount			Recovery	=	128.48%	

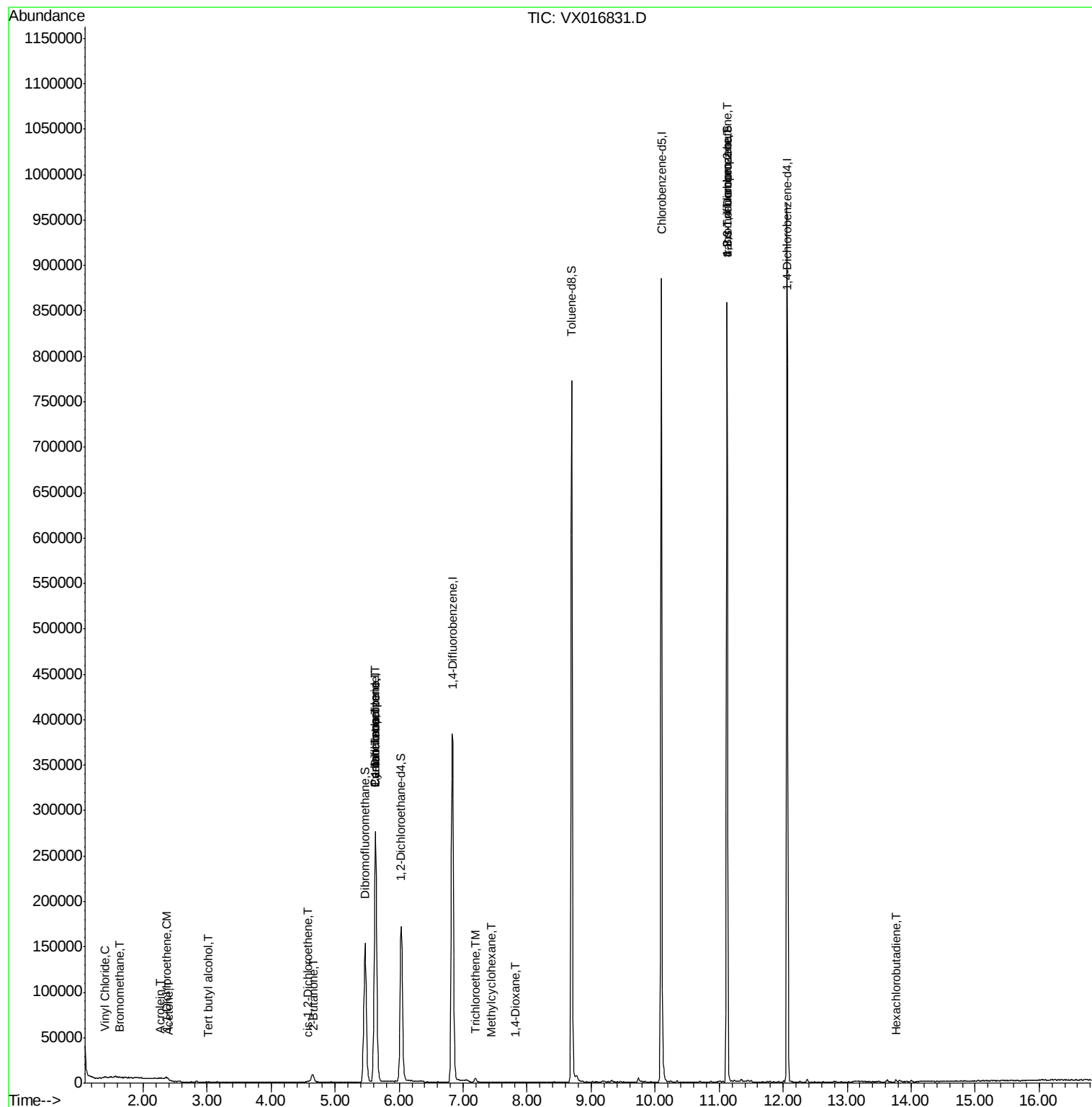
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	1307	0.406	ug/l #	78
5) Bromomethane	1.64	94	506	0.253	ug/l #	68
11) Tert butyl alcohol	3.01	59	158	0.202	ug/l #	81
12) 1,1-Dichloroethene	2.36	96	842	0.312	ug/l #	49
13) Acrolein	2.27	56	486	3.753	ug/l	85
16) Acetone	2.41	43	1092	0.774	ug/l	88
25) 2-Butanone	4.66	43	845	0.397	ug/l #	44
27) cis-1,2-Dichloroethene	4.57	96	974	0.293	ug/l	60
31) Cyclohexane	5.62	56	4686	1.850	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	18703	5.223	ug/l #	49
38) Carbon Tetrachloride	5.63	117	25499	6.271	ug/l #	15
39) Methylcyclohexane	7.45	83	166	0.992	ug/l #	19
44) Trichloroethene	7.19	130	1741	0.516	ug/l	85
49) 1,4-Dioxane	7.82	88	27	0.375	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	107084	24.832	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	107084	62.514	ug/l #	13
94) Hexachlorobutadiene	13.76	225	401	0.614	ug/l	94

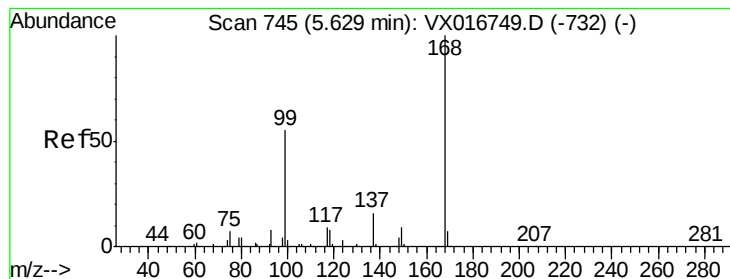
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX016831.D

Acq: 17 Jun 2020 20:44

Instrument :

MSVOA_X

ClientSampleId :

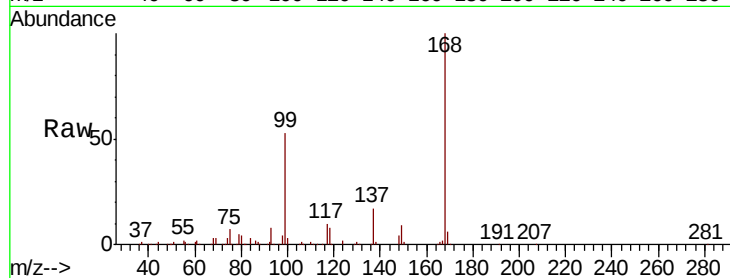
S49-TB-2020-1RE

Tot Ion:168 Resp: 276502

Ion Ratio Lower Upper

168 100

99 52.5 43.8 65.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

60000

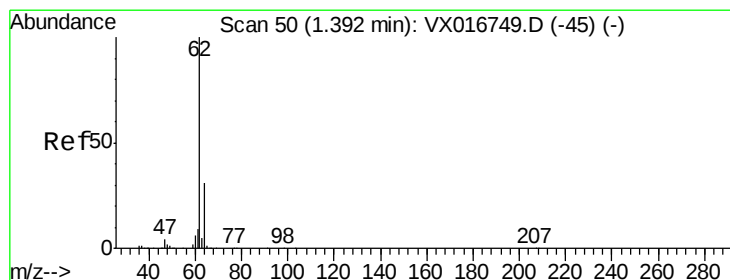
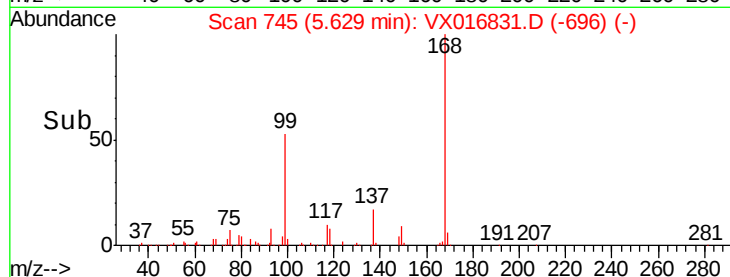
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.406 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016831.D

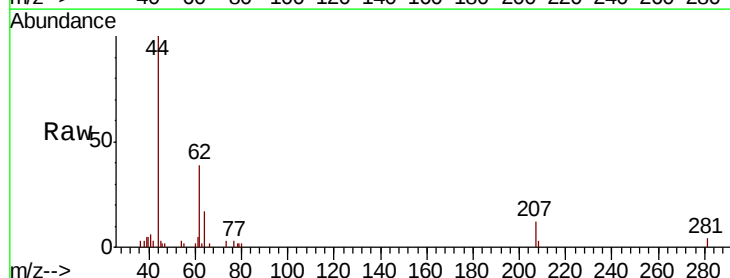
Acq: 17 Jun 2020 20:44

Tgt Ion: 62 Resp: 1307

Ion Ratio Lower Upper

62 100

64 43.7 25.1 37.7#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

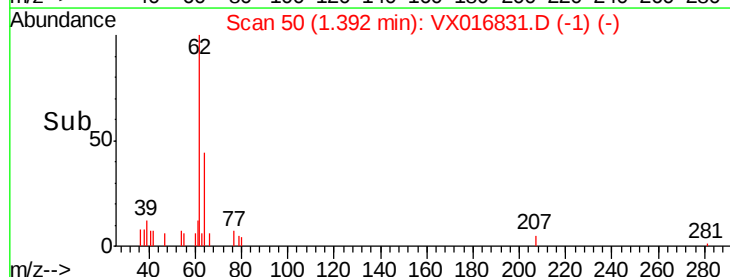
1000

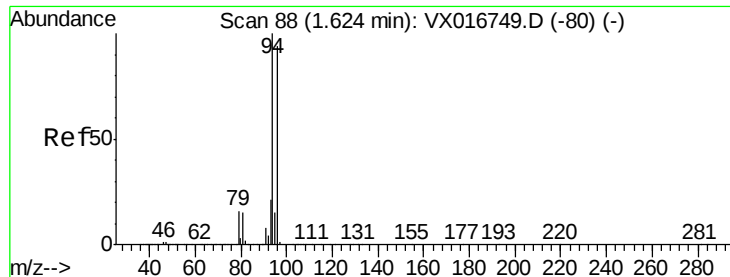
500

0

Time-->

1.35 1.40 1.45





#5

Bromomethane

Concen: 0.253 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016831.D

Acq: 17 Jun 2020 20:44

Instrument :

MSVOA_X

ClientSampleId :

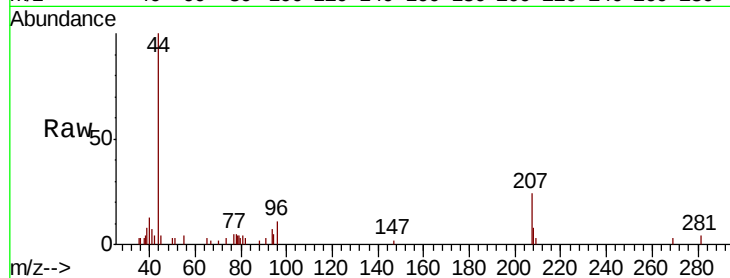
S49-TB-2020-1RE

Tot Ion: 94 Resp: 506

Ion Ratio Lower Upper

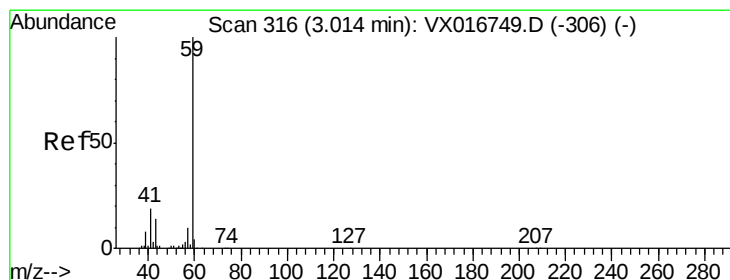
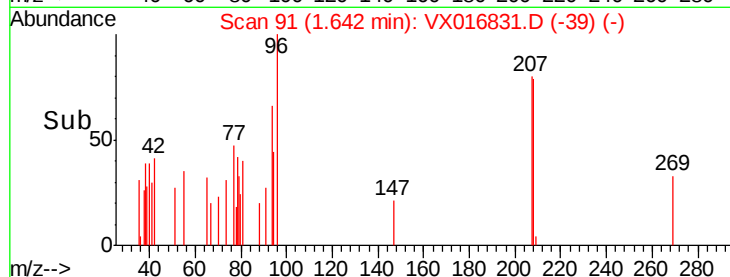
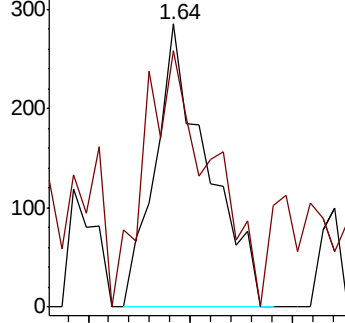
94 100

96 63.2 75.4 113.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 0.202 ug/l

RT: 3.01 min Scan# 316

Delta R.T. -0.00 min

Lab File: VX016831.D

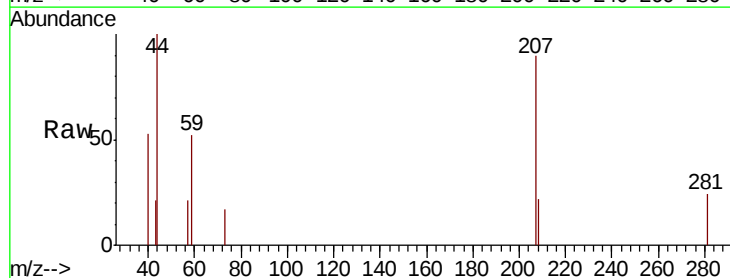
Acq: 17 Jun 2020 20:44

Tgt Ion: 59 Resp: 158

Ion Ratio Lower Upper

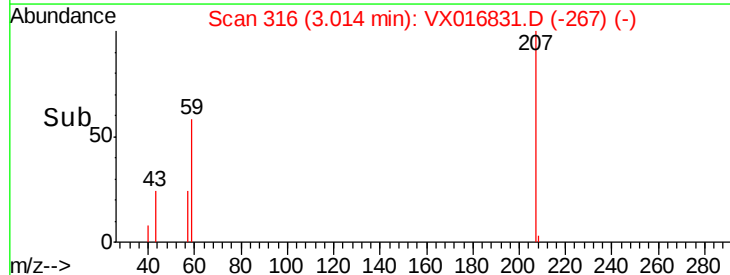
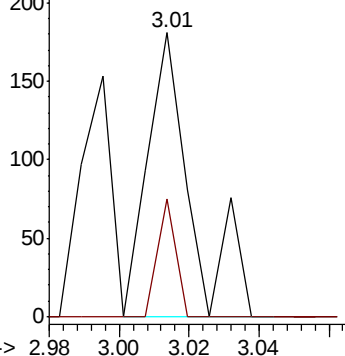
59 100

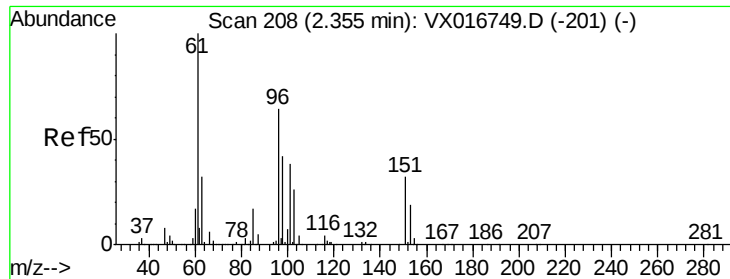
57 17.1 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.312 ug/l

RT: 2.36 min Scan# 208

Delta R.T. -0.00 min

Lab File: VX016831.D

Acq: 17 Jun 2020 20:44

Instrument :

MSVOA_X

ClientSampleId :

S49-TB-2020-1RE

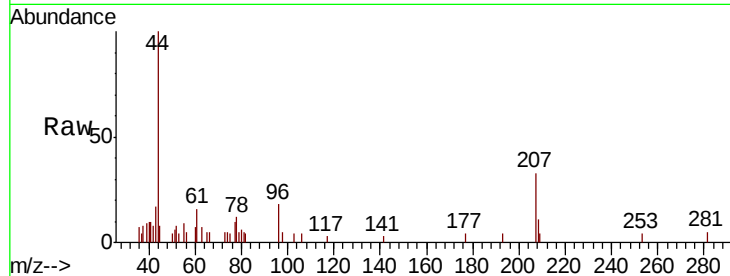
Tot Ion: 96 Resp: 842

Ion Ratio Lower Upper

96 100

61 86.3 124.1 186.1#

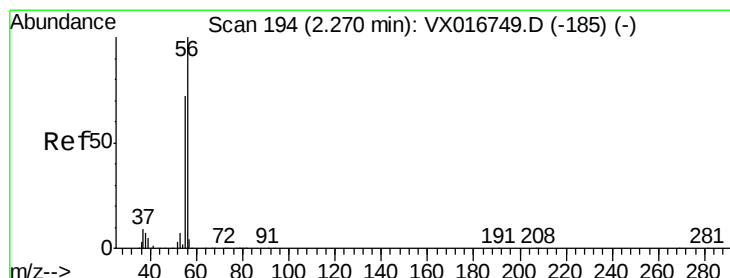
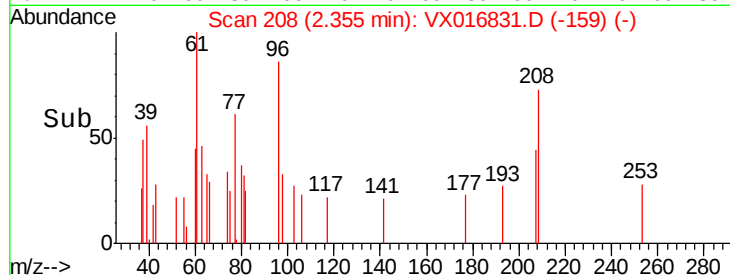
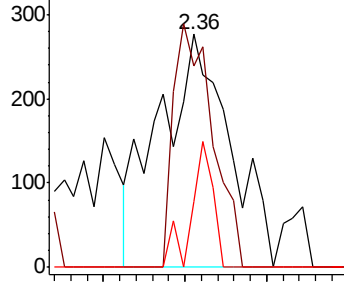
98 28.2 52.7 79.1#



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



#13

Acrolein

Concen: 3.753 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX016831.D

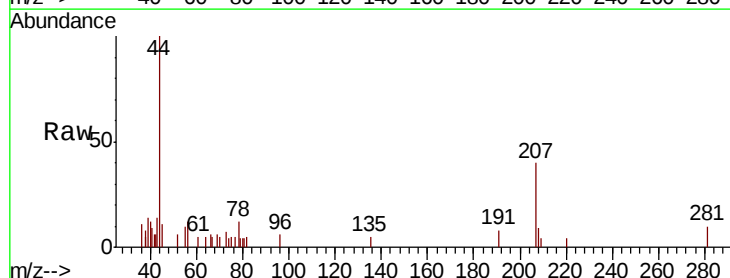
Acq: 17 Jun 2020 20:44

Tgt Ion: 56 Resp: 486

Ion Ratio Lower Upper

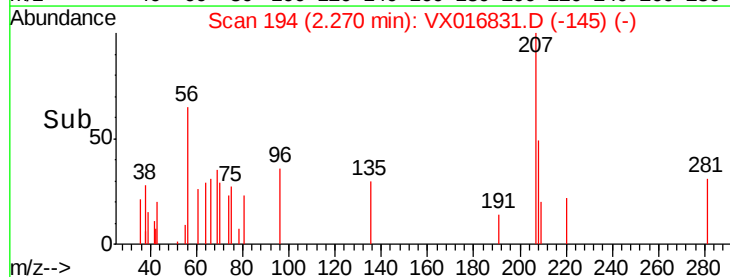
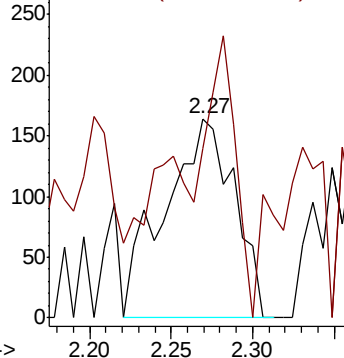
56 100

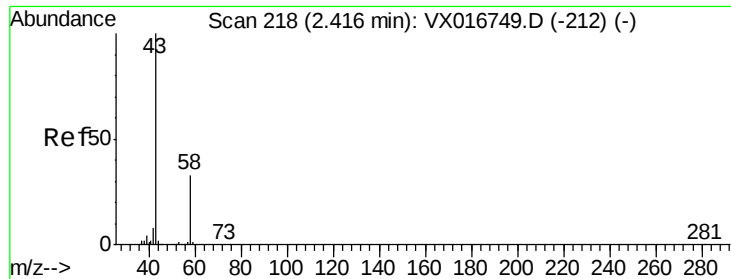
55 60.1 58.2 87.4



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 0.774 ug/l

RT: 2.41 min Scan# 217

Delta R.T. -0.01 min

Lab File: VX016831.D

Acq: 17 Jun 2020 20:44

Instrument :

MSVOA_X

ClientSampleId :

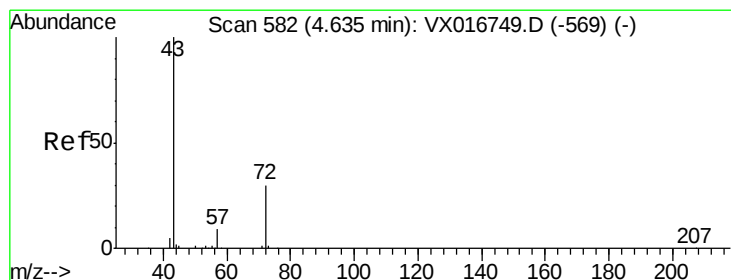
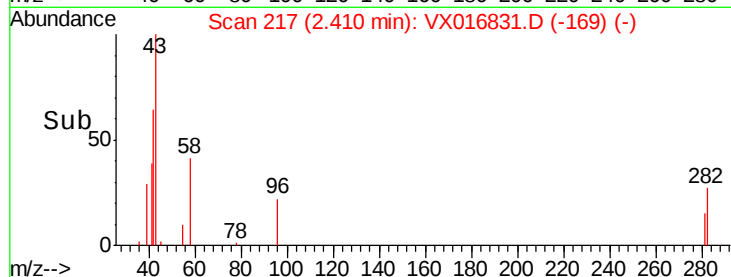
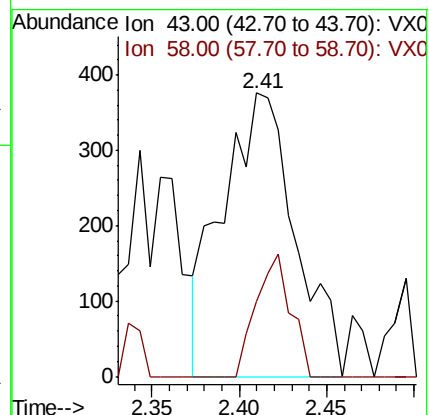
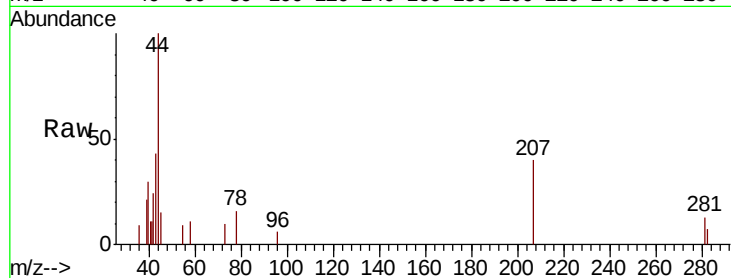
S49-TB-2020-1RE

Tot Ion: 43 Resp: 1092

Ion Ratio Lower Upper

43 100

58 26.3 26.3 39.5



#25

2-Butanone

Concen: 0.397 ug/l

RT: 4.66 min Scan# 586

Delta R.T. 0.02 min

Lab File: VX016831.D

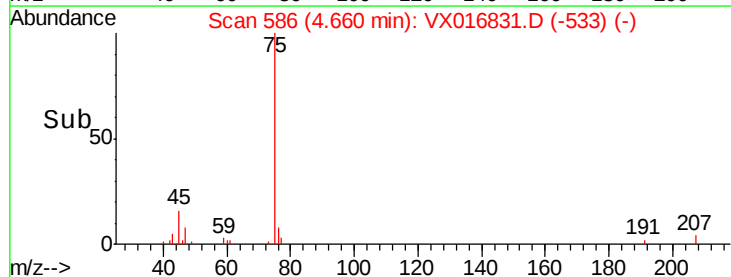
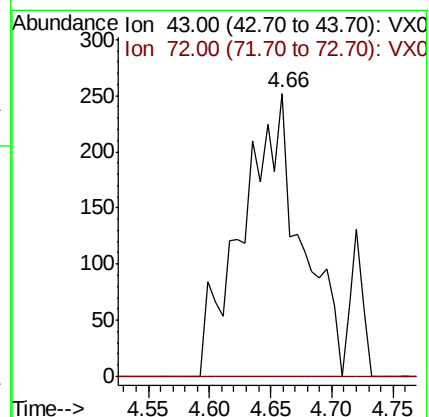
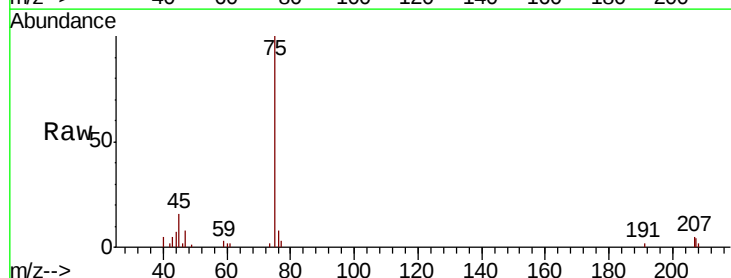
Acq: 17 Jun 2020 20:44

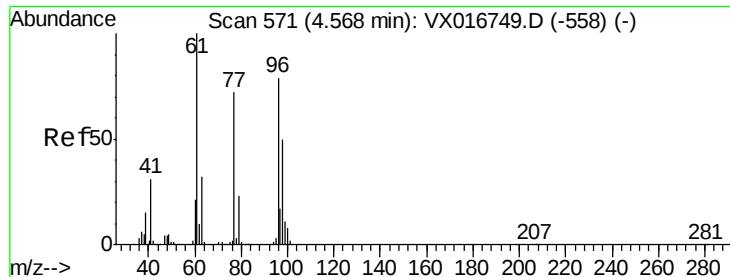
Tgt Ion: 43 Resp: 845

Ion Ratio Lower Upper

43 100

72 0.0 24.2 36.4#



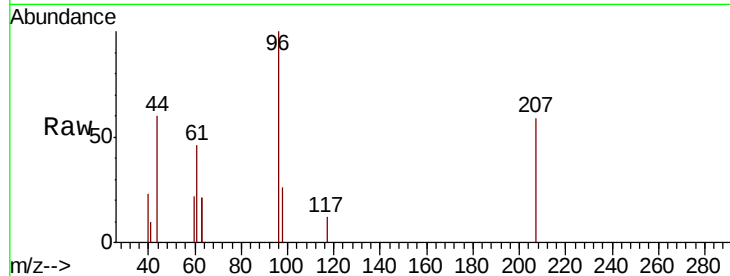


#27

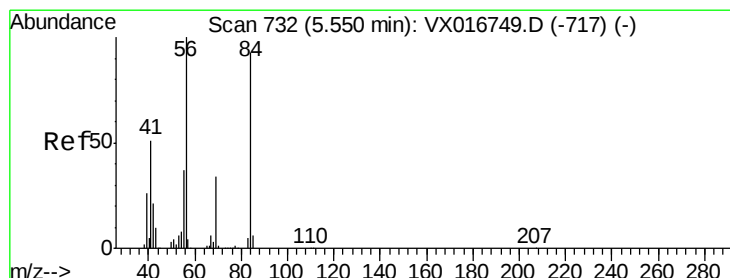
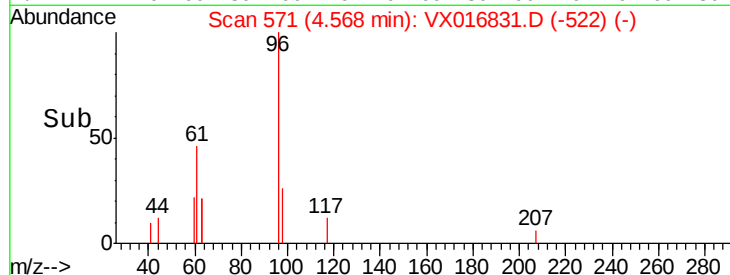
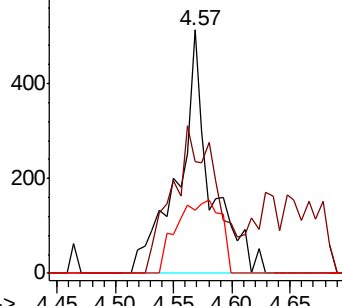
cis-1,2-Dichloroethene
 Concen: 0.293 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. -0.00 min
 Lab File: VX016831.D
 Acq: 17 Jun 2020 20:44

Instrument :
 MSVOA_X
 ClientSampleId :
 S49-TB-2020-1RE

Tot Ion	Ratio	Lower	Upper
96	100		
61	84.0	0.0	276.2
98	42.0	0.0	130.0



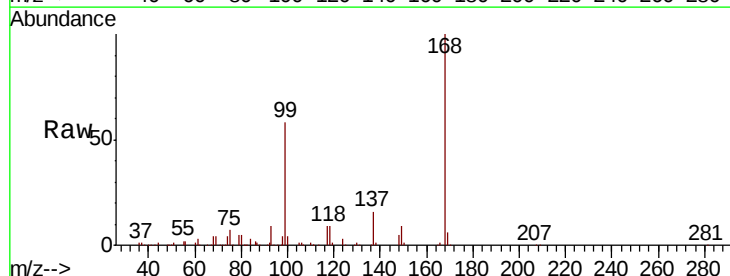
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



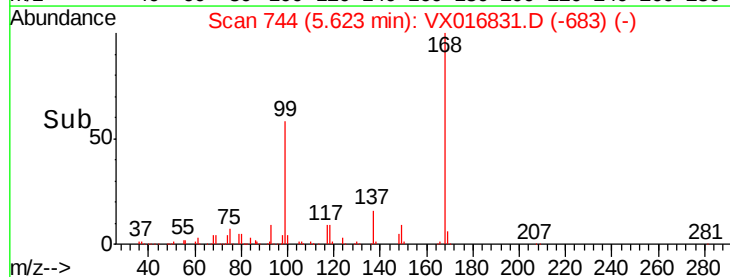
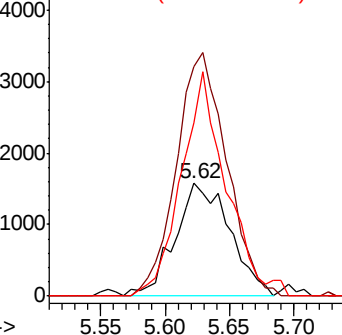
#31

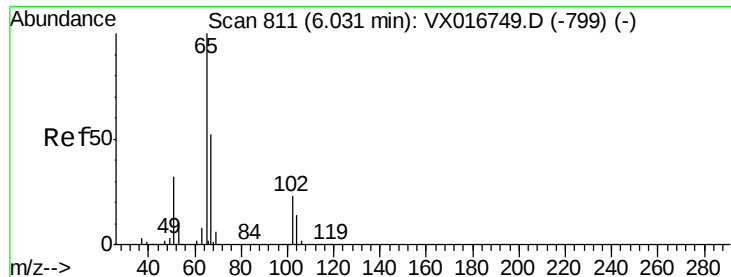
Cyclohexane
 Concen: 1.850 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. 0.07 min
 Lab File: VX016831.D
 Acq: 17 Jun 2020 20:44

Tgt Ion	Ratio	Lower	Upper
56	100		
69	204.0	27.1	40.7#
84	154.0	74.0	111.0#



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

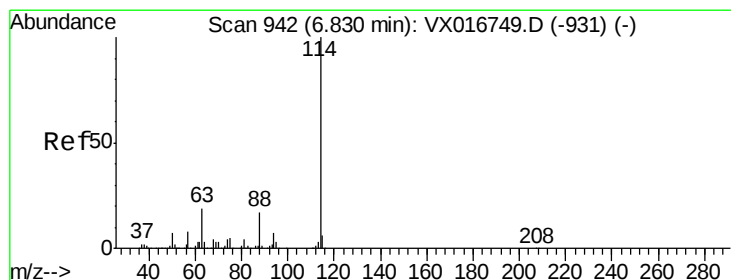
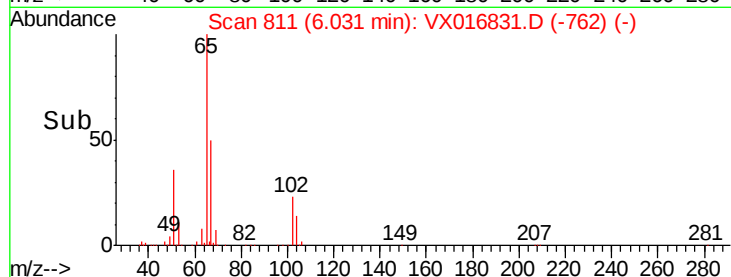
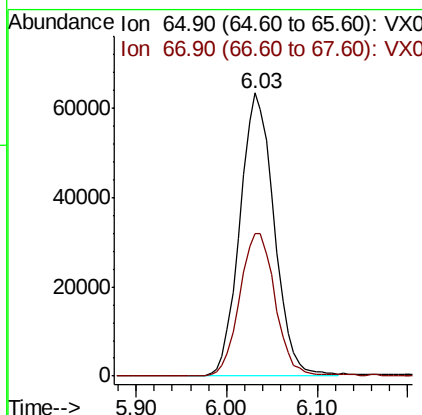
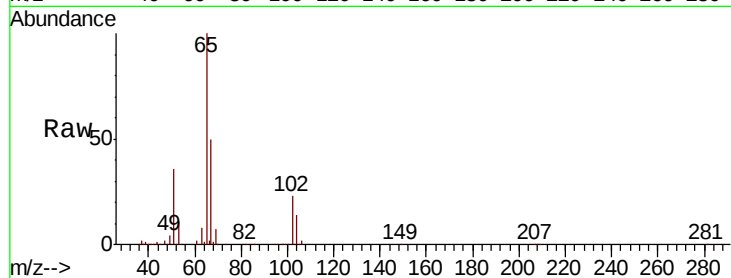




#33
 1,2-Dichloroethane-d4
 Concen: 53.405 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.00 min
 Lab File: VX016831.D
 Acq: 17 Jun 2020 20:44

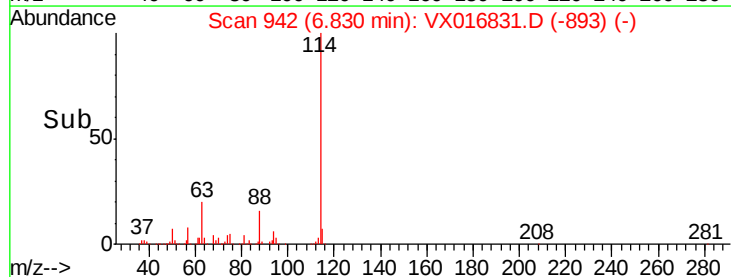
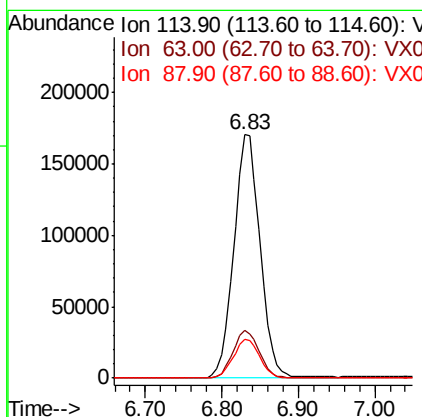
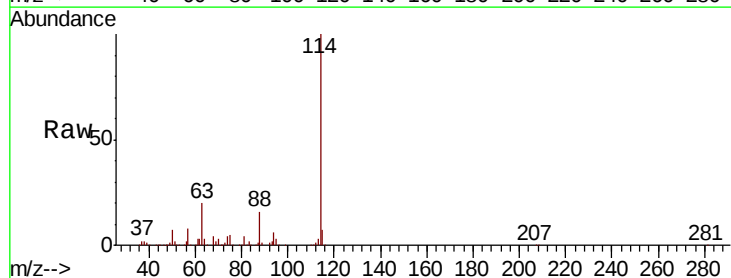
Instrument :
 MSVOA_X
 ClientSampleId :
 S49-TB-2020-1RE

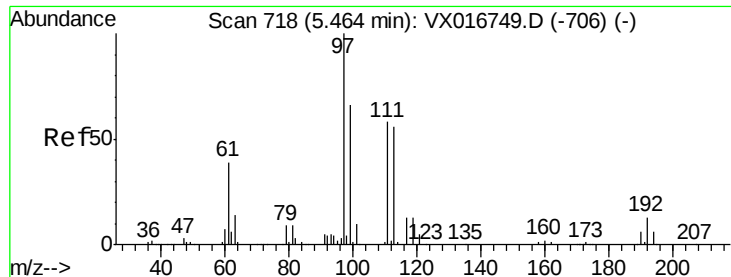
Tot Ion: 65 Resp: 166101
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX016831.D
 Acq: 17 Jun 2020 20:44

Tgt Ion: 114 Resp: 405165
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 38.8
 88 16.0 0.0 33.4





#35

Dibromofluoromethane

Concen: 52.247 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX016831.D

Acq: 17 Jun 2020 20:44

Instrument :

MSVOA_X

ClientSampleId :

S49-TB-2020-1RE

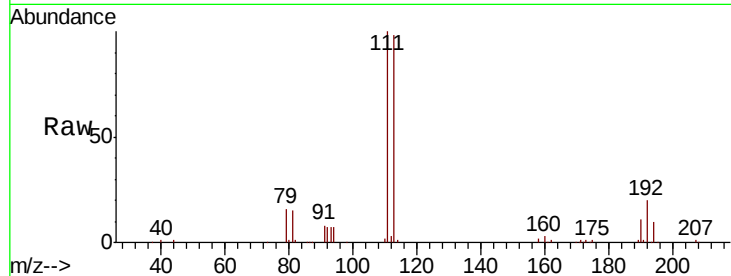
Tot Ion:113 Resp: 130607

Ion Ratio Lower Upper

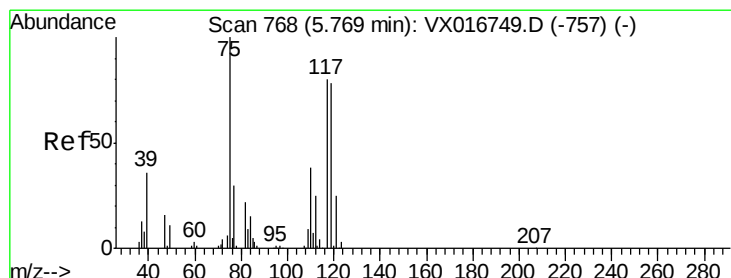
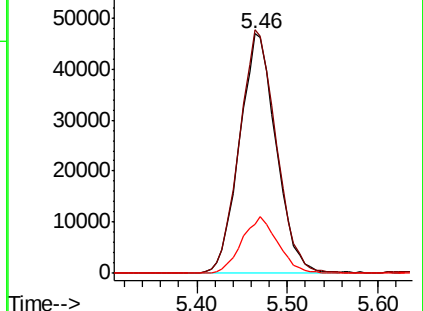
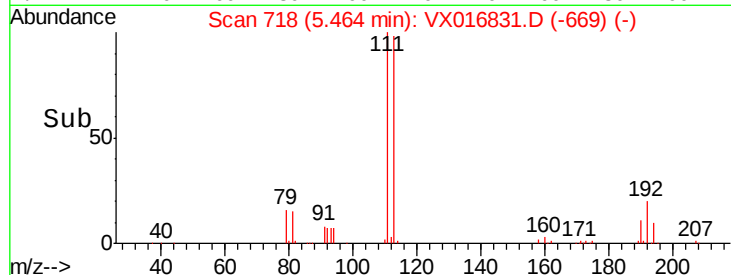
113 100

111 102.6 81.8 122.6

192 23.3 18.2 27.4



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: 5.223 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016831.D

Acq: 17 Jun 2020 20:44

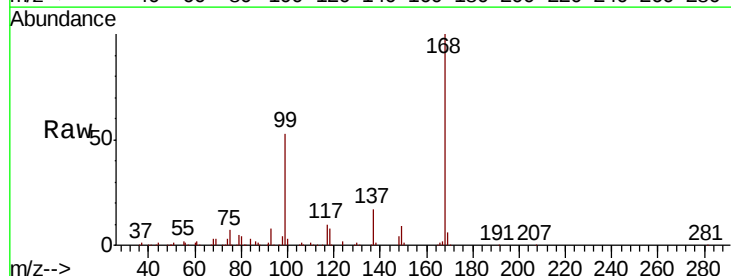
Tgt Ion: 75 Resp: 18703

Ion Ratio Lower Upper

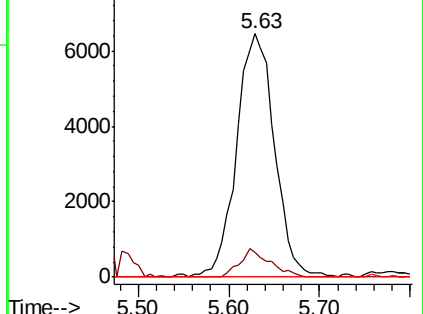
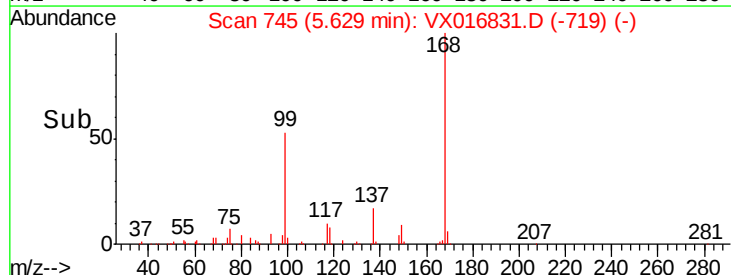
75 100

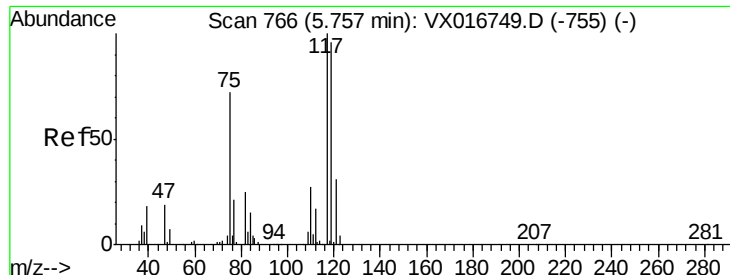
110 9.3 18.4 55.2#

77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.271 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016831.D

Acq: 17 Jun 2020 20:44

Instrument :

MSVOA_X

ClientSampleId :

S49-TB-2020-1RE

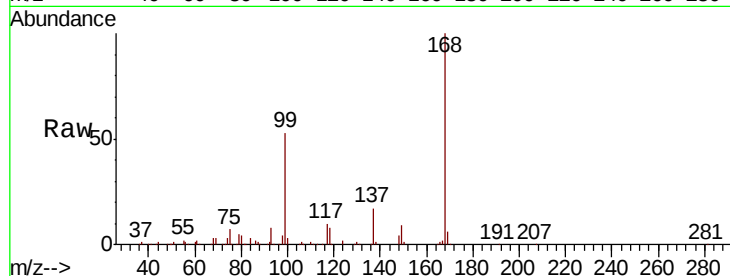
Tot Ion:117 Resp: 25499

Ion Ratio Lower Upper

117 100

119 4.5 76.7 115.1#

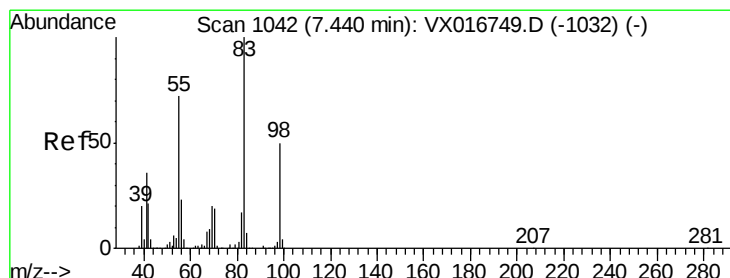
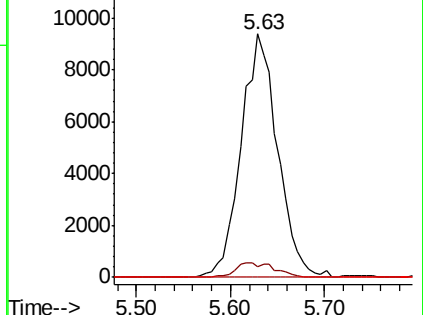
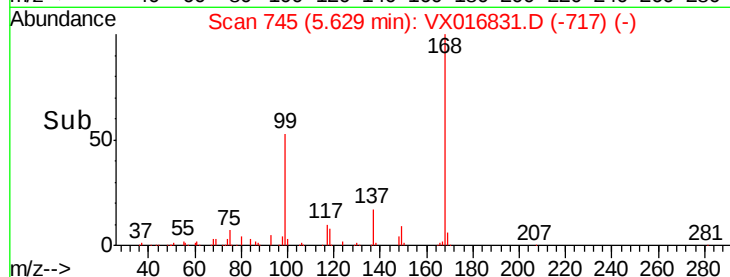
121 0.0 24.7 37.1#



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



#39

Methylcyclohexane

Concen: 0.992 ug/l

RT: 7.45 min Scan# 1043

Delta R.T. 0.01 min

Lab File: VX016831.D

Acq: 17 Jun 2020 20:44

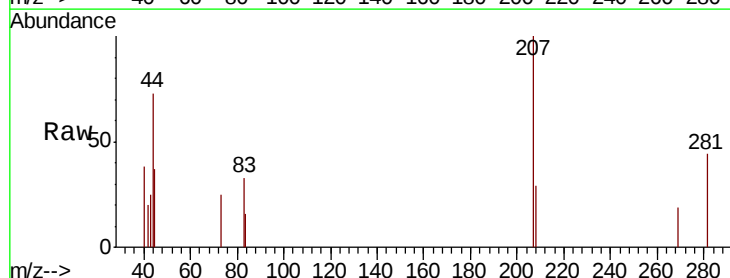
Tgt Ion: 83 Resp: 166

Ion Ratio Lower Upper

83 100

55 0.0 57.3 85.9#

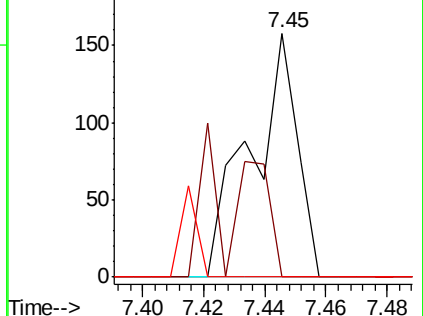
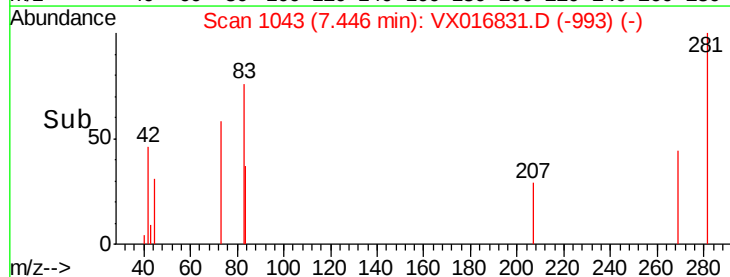
98 0.0 40.3 60.5#

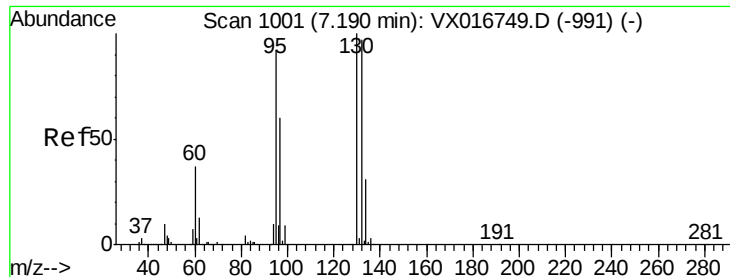


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 0.516 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX016831.D

Acq: 17 Jun 2020 20:44

Instrument :

MSVOA_X

ClientSampleId :

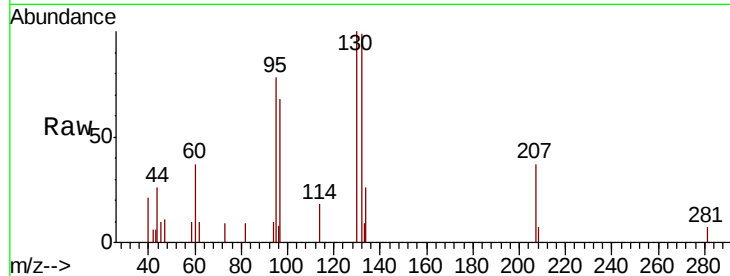
S49-TB-2020-1RE

Tot Ion:130 Resp: 1741

Ion Ratio Lower Upper

130 100

95 77.9 0.0 183.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.19

800

600

400

200

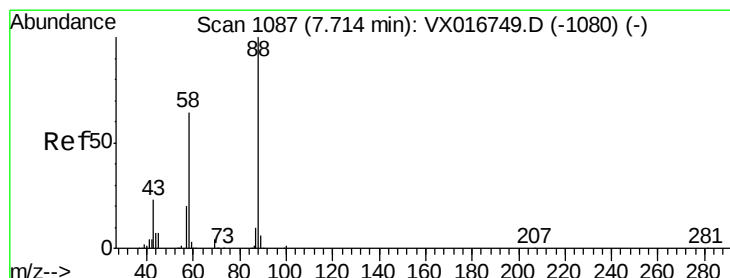
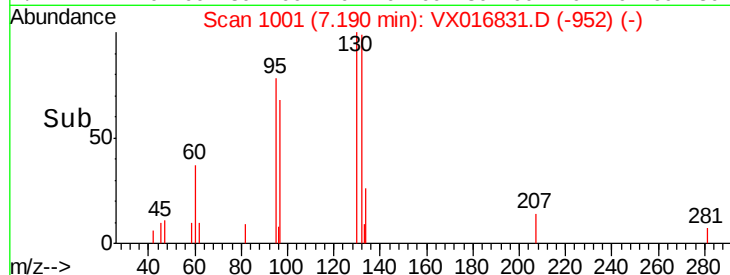
0

7.15

7.20

7.25

Time-->



#49

1,4-Dioxane

Concen: 0.375 ug/l

RT: 7.82 min Scan# 1105

Delta R.T. 0.11 min

Lab File: VX016831.D

Acq: 17 Jun 2020 20:44

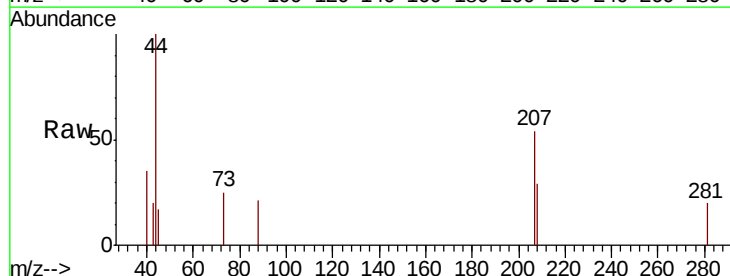
Tgt Ion: 88 Resp: 27

Ion Ratio Lower Upper

88 100

43 255.6 22.9 34.3#

58 0.0 53.7 80.5#



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

150

100

50

0

7.80

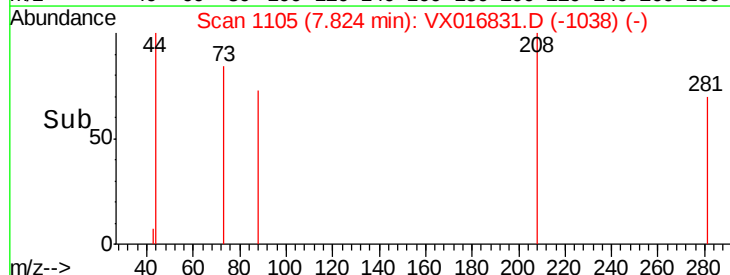
7.81

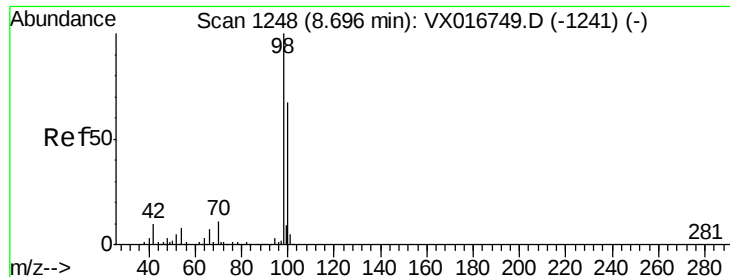
7.82

7.83

7.84

Time-->





#50

Toluene-d8

Concen: 50.883 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016831.D

Acq: 17 Jun 2020 20:44

Instrument :

MSVOA_X

ClientSampleId :

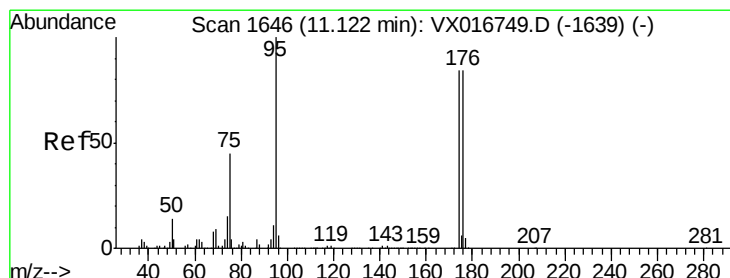
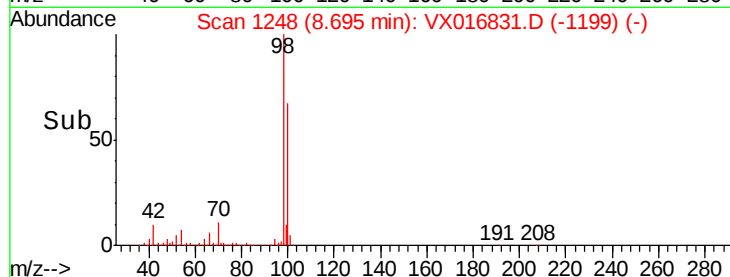
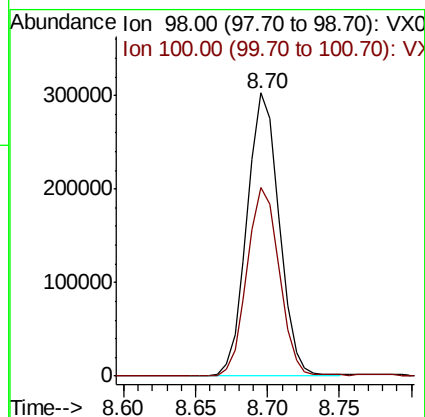
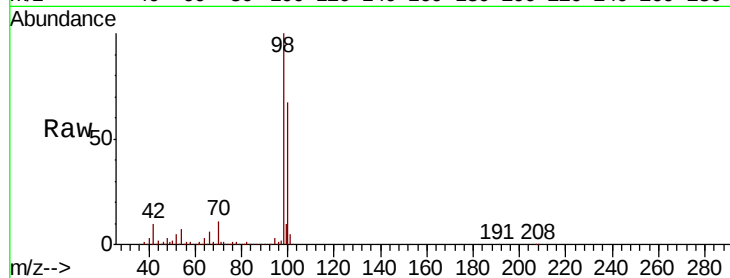
S49-TB-2020-1RE

Tot Ion: 98 Resp: 469011

Ion Ratio Lower Upper

98 100

100 66.9 53.9 80.9



#62

4-Bromofluorobenzene

Concen: 64.235 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016831.D

Acq: 17 Jun 2020 20:44

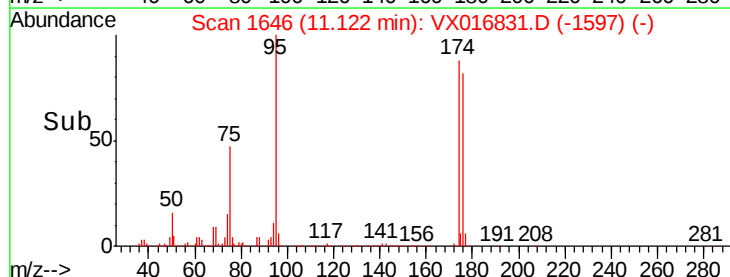
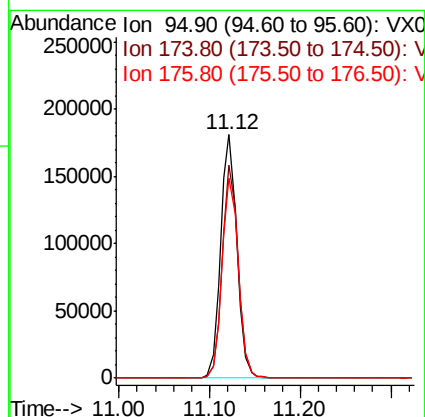
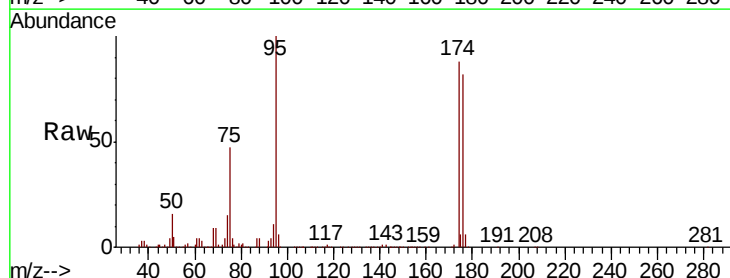
Tgt Ion: 95 Resp: 226473

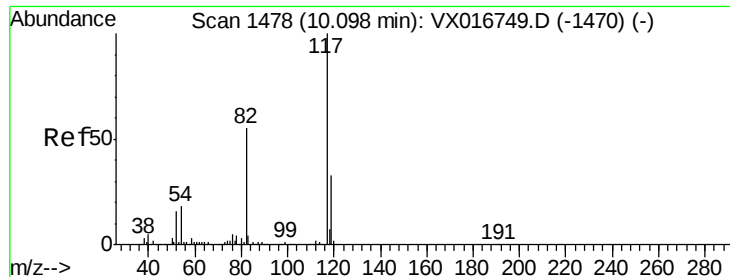
Ion Ratio Lower Upper

95 100

174 85.6 0.0 171.0

176 83.1 0.0 166.2

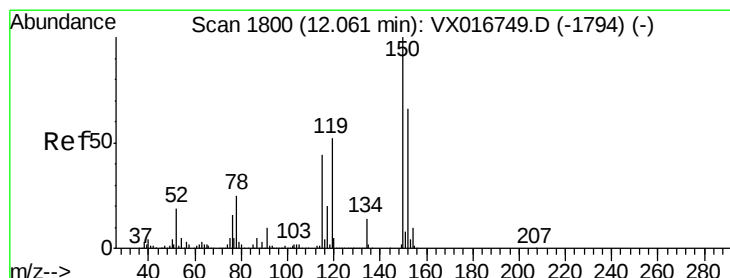
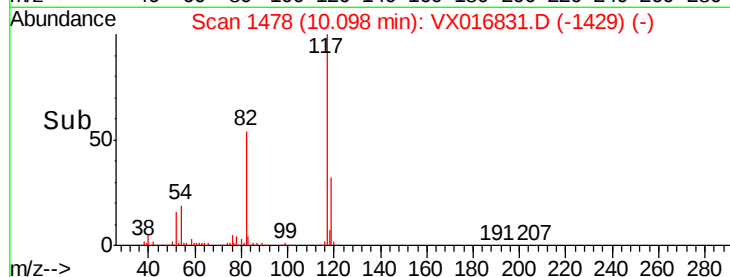
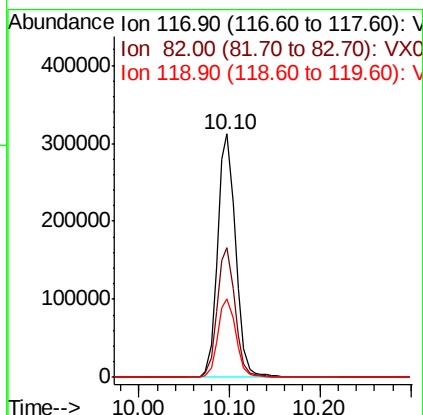
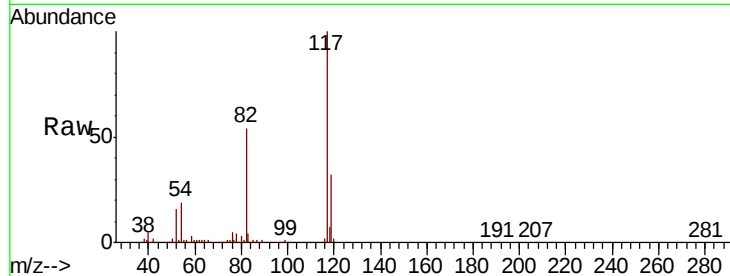




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016831.D
Acq: 17 Jun 2020 20:44

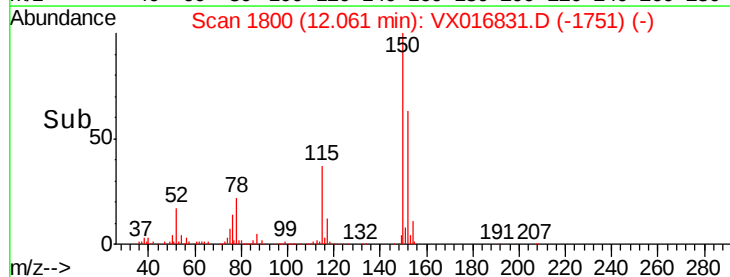
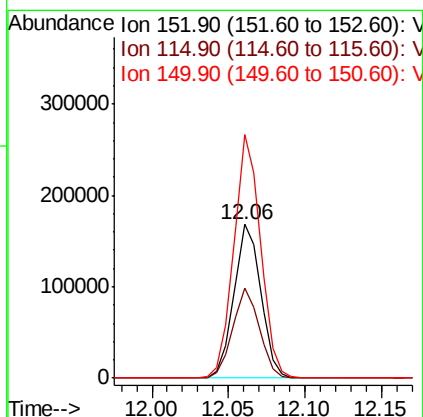
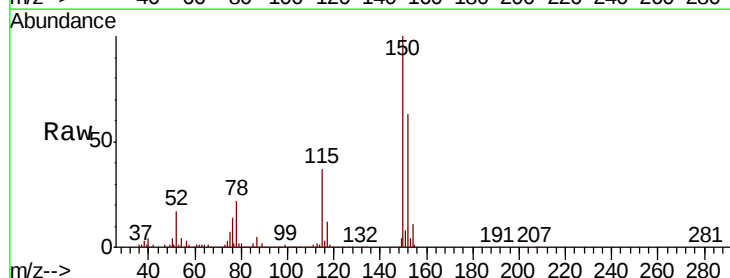
Instrument :
MSVOA_X
ClientSampleId :
S49-TB-2020-1RE

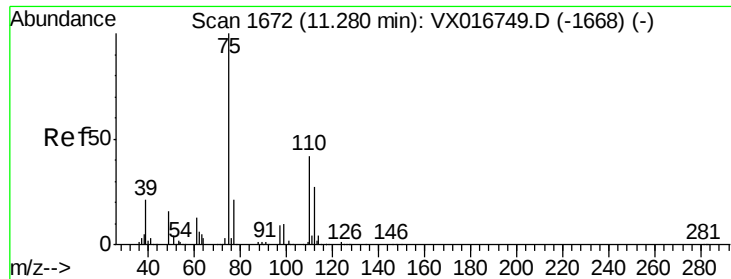
Tot Ion:117 Resp: 434865
Ion Ratio Lower Upper
117 100
82 53.5 43.8 65.6
119 32.4 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX016831.D
Acq: 17 Jun 2020 20:44

Tgt Ion:152 Resp: 205059
Ion Ratio Lower Upper
152 100
115 58.2 40.3 120.8
150 157.1 0.0 337.4

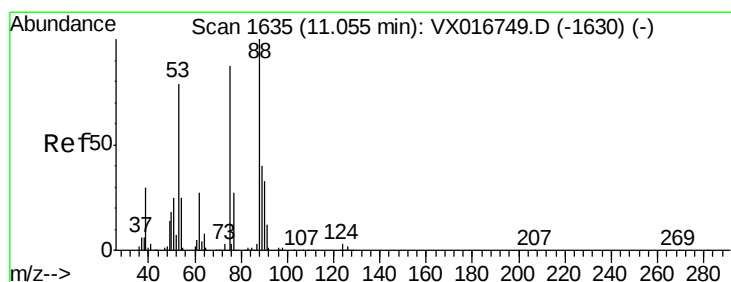
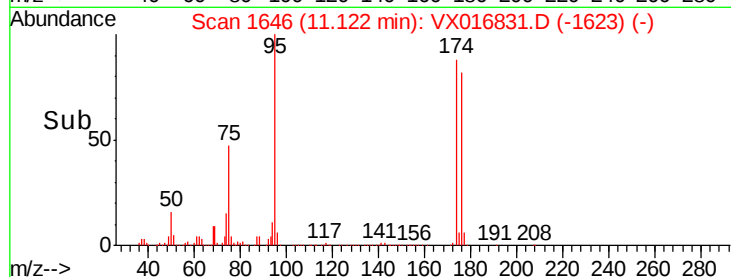
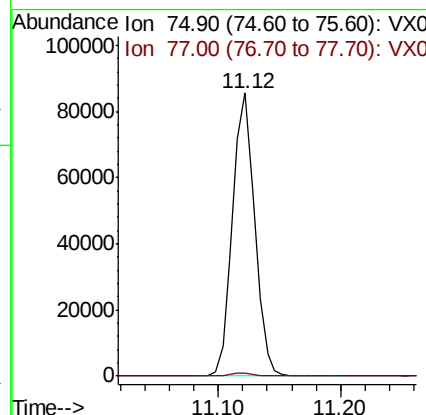
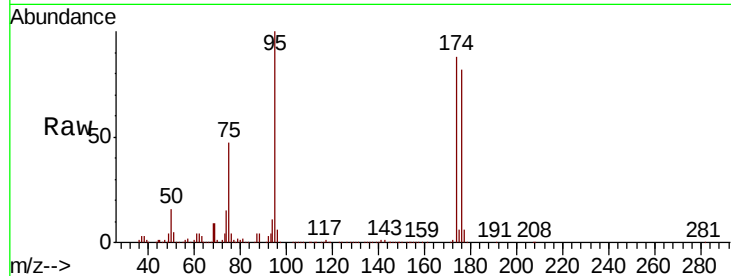




#76
 1,2,3-Trichloropropane
 Concen: 24.832 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX016831.D
 Acq: 17 Jun 2020 20:44

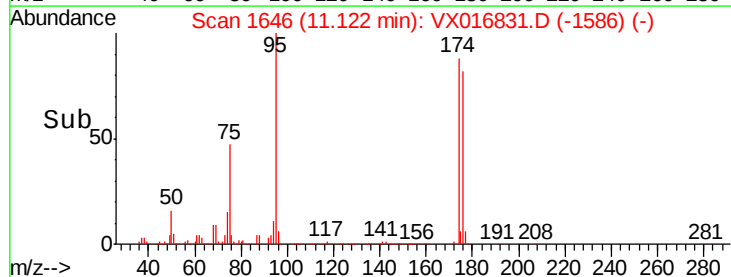
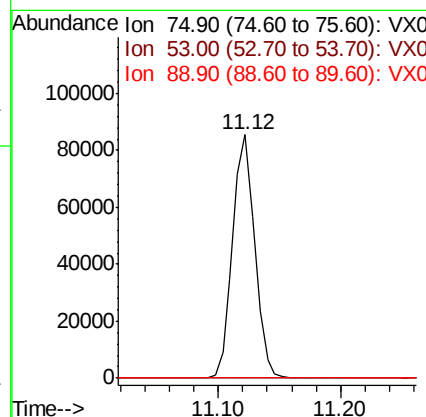
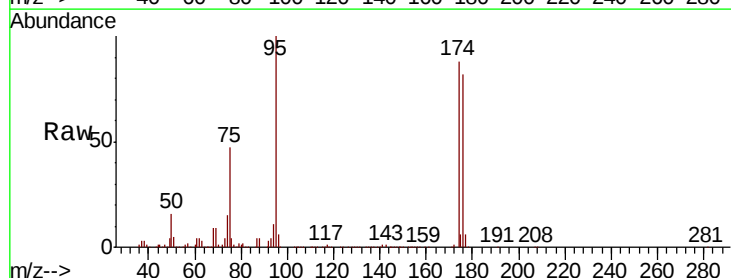
Instrument :
 MSVOA_X
 ClientSampleId :
 S49-TB-2020-1RE

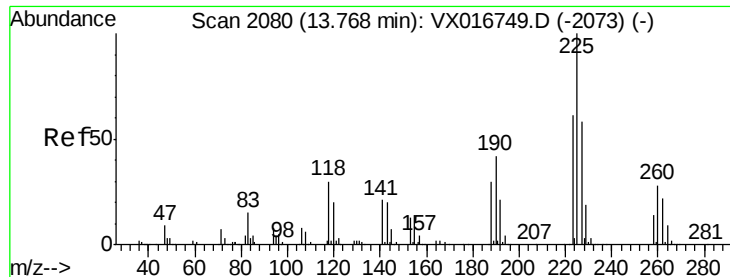
Tot Ion: 75 Resp: 107084
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.3 60.9#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.514 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX016831.D
 Acq: 17 Jun 2020 20:44

Tgt Ion: 75 Resp: 107084
 Ion Ratio Lower Upper
 75 100
 53 0.2 71.4 107.0#
 89 0.0 39.1 58.7#





#94

Hexachlorobutadiene

Concen: 0.614 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX016831.D

Acq: 17 Jun 2020 20:44

Instrument :

MSVOA_X

ClientSampleId :

S49-TB-2020-1RE

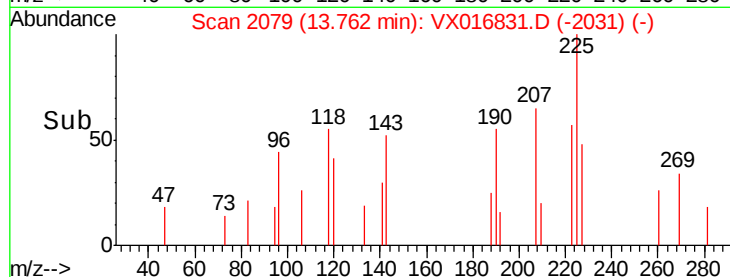
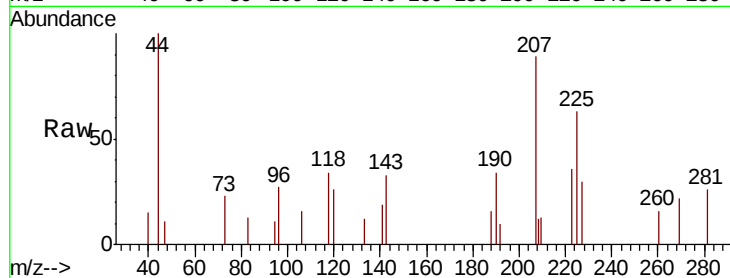
Tot Ion:225 Resp: 401

Ion Ratio Lower Upper

225 100

223 68.1 31.1 93.5

227 58.1 30.9 92.7



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

