

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070120\
 Data File : VX017099.D
 Acq On : 01 Jul 2020 15:38
 Operator : JC/SP
 Sample : L3129-02 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 1445

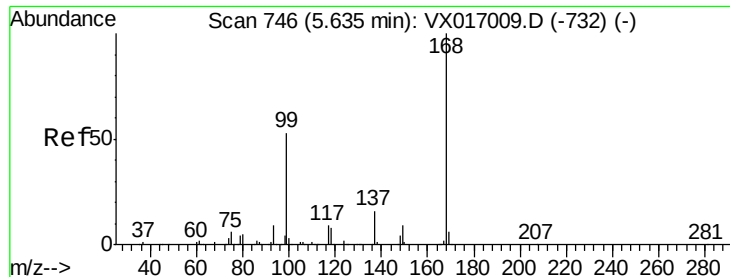
Quant Time: Jul 02 01:36:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	219274	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	378852	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	389041	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	206298	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	148233	54.84	ug/l	0.00
Spiked Amount			Recovery	=	109.68%	
35) Dibromofluoromethane	5.47	113	127178	53.07	ug/l	0.00
Spiked Amount			Recovery	=	106.14%	
50) Toluene-d8	8.70	98	460071	51.92	ug/l	0.00
Spiked Amount			Recovery	=	103.84%	
62) 4-Bromofluorobenzene	11.12	95	190020	54.85	ug/l	0.00
Spiked Amount			Recovery	=	109.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.18	74	310	0.625	ug/l	54
11) Tert butyl alcohol	3.02	59	264	0.512	ug/l #	80
13) Acrolein	2.28	56	264	0.856	ug/l #	67
15) Acrylonitrile	3.13	53	398	0.321	ug/l #	29
16) Acetone	2.42	43	6496	6.424	ug/l #	86
17) Carbon Disulfide	2.55	76	14995	2.499	ug/l	96
20) Methylene Chloride	2.84	84	1329	Below Cal	#	81
25) 2-Butanone	4.64	43	801	0.475	ug/l #	49
31) Cyclohexane	5.63	56	4688	1.285	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	16700	4.664	ug/l #	51
38) Carbon Tetrachloride	5.63	117	21391	5.424	ug/l #	19
44) Trichloroethene	7.20	130	154	Below Cal		88
49) 1,4-Dioxane	7.87	88	19	0.292	ug/l #	1
59) 2-Hexanone	9.47	43	592	0.225	ug/l	71
76) 1,2,3-Trichloropropane	11.12	75	95091	23.440	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	95091	60.702	ug/l #	13
88) 1,4-Dichlorobenzene	12.01	146	158	Below Cal		78

(#) = 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

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ClientSampleId :

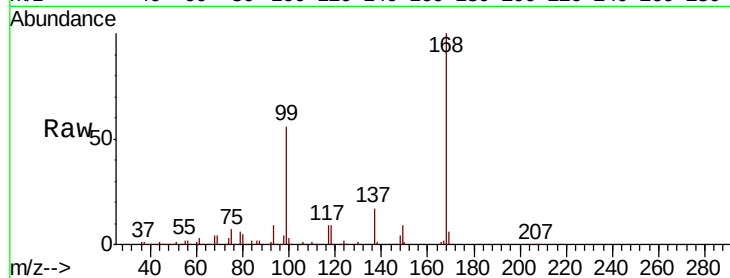
1445

Tot Ion:168 Resp: 219274

Ion Ratio Lower Upper

168 100

99 56.1 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

80000

60000

40000

20000

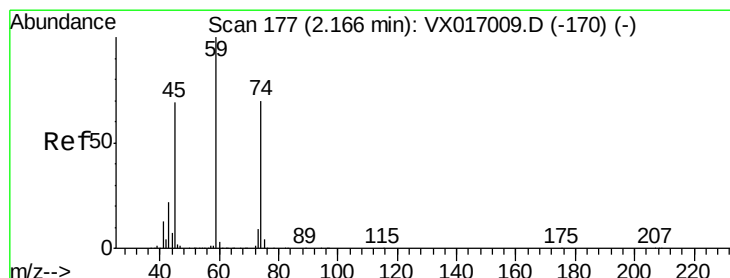
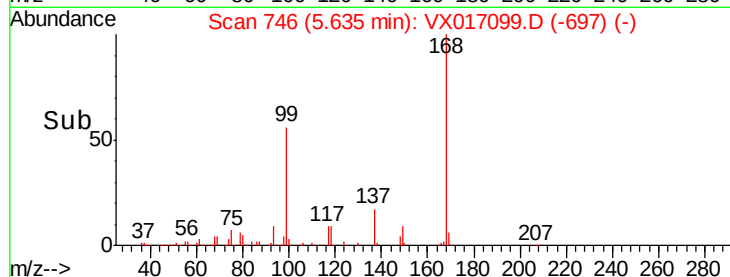
0

Time-->

5.50

5.60

5.70



#8

Diethyl Ether

Concen: 0.625 ug/l

RT: 2.18 min Scan# 179

Delta R.T. 0.01 min

Lab File: VX017099.D

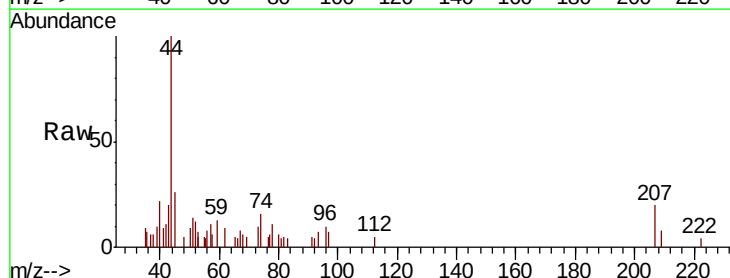
Acq: 01 Jul 2020 15:38

Tgt Ion: 74 Resp: 310

Ion Ratio Lower Upper

74 100

45 53.5 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

400

300

200

100

0

Time-->

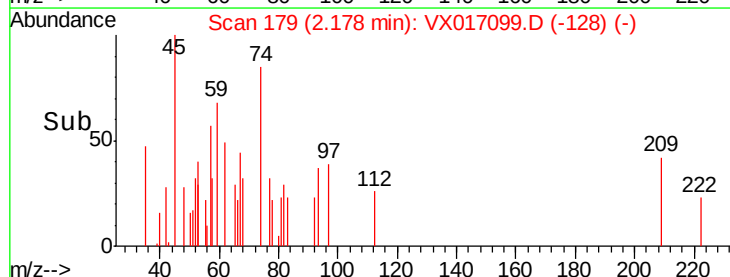
2.12

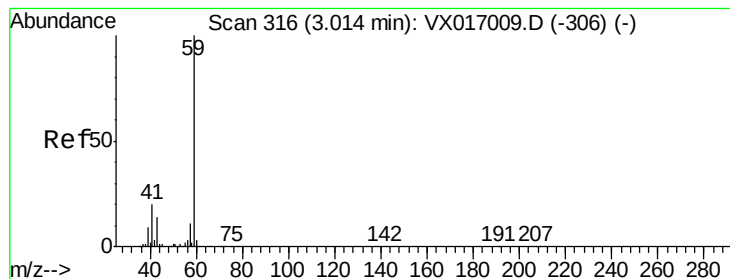
2.14

2.16

2.18

2.20





#11

Tert butyl alcohol

Concen: 0.512 ug/l

RT: 3.02 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX017099.D

Acq: 01 Jul 2020 15:38

Instrument :

MSVOA_X

ClientSampled :

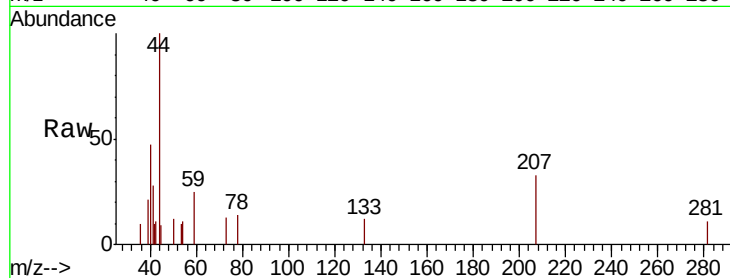
1445

Tot Ion: 59 Resp: 264

Ion Ratio Lower Upper

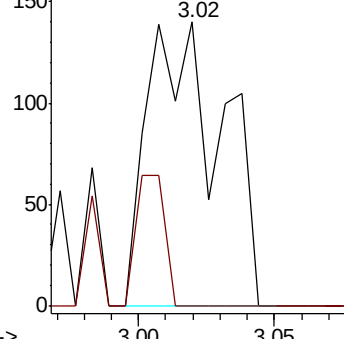
59 100

57 17.8 8.2 12.2#

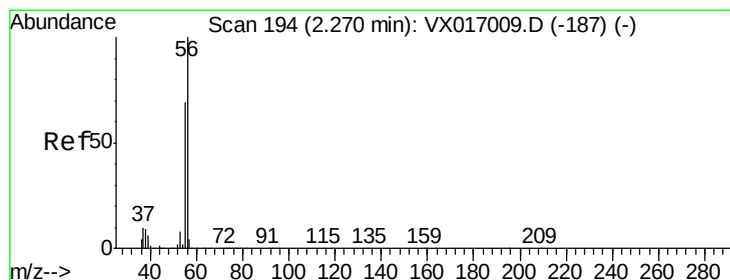
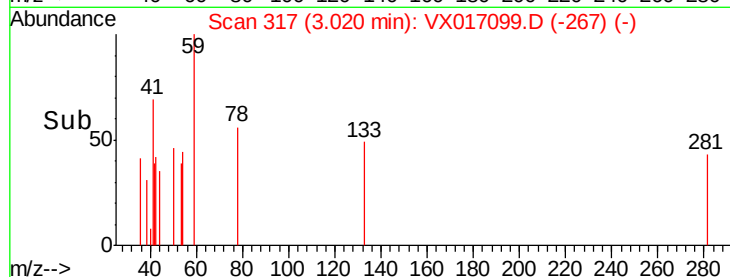


Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



Time-->



#13

Acrolein

Concen: 0.856 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX017099.D

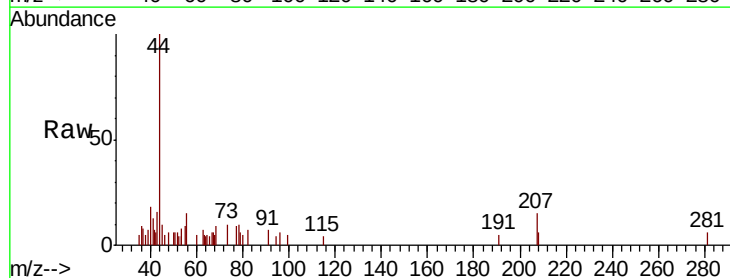
Acq: 01 Jul 2020 15:38

Tgt Ion: 56 Resp: 264

Ion Ratio Lower Upper

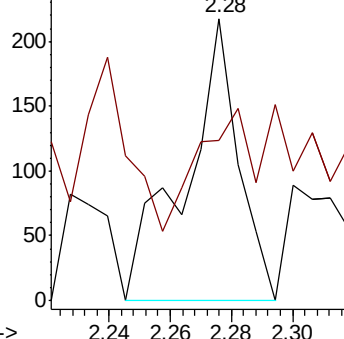
56 100

55 42.8 55.7 83.5#

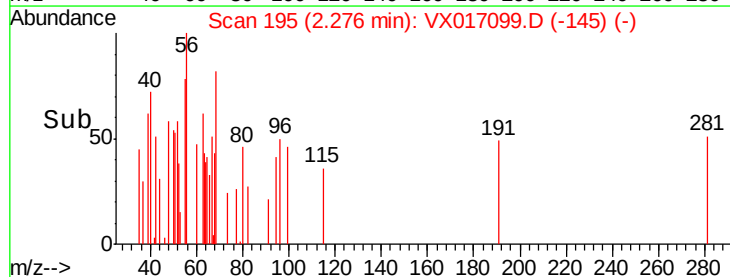


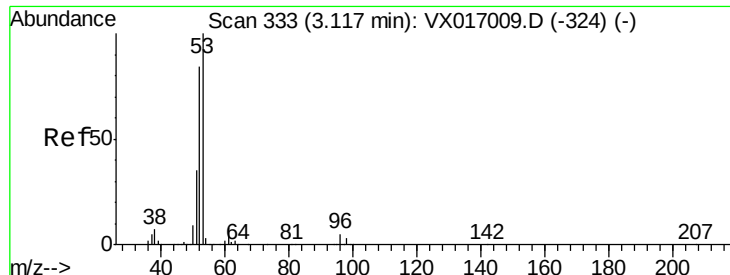
Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->





#15

Acrylonitrile

Concen: 0.321 ug/l

RT: 3.13 min Scan# 335

Delta R.T. 0.01 min

Lab File: VX017099.D

Acq: 01 Jul 2020 15:38

Instrument :

MSVOA_X

ClientSampleId :

1445

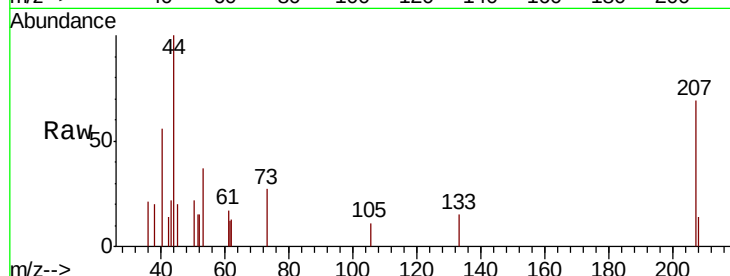
Tot Ion: 53 Resp: 398

Ion Ratio Lower Upper

53 100

52 0.0 65.6 98.4#

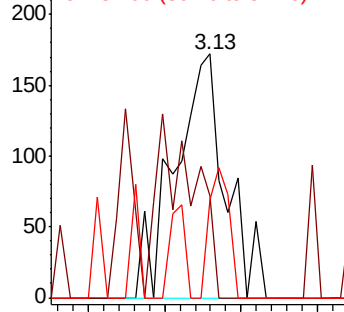
51 21.6 28.3 42.5#



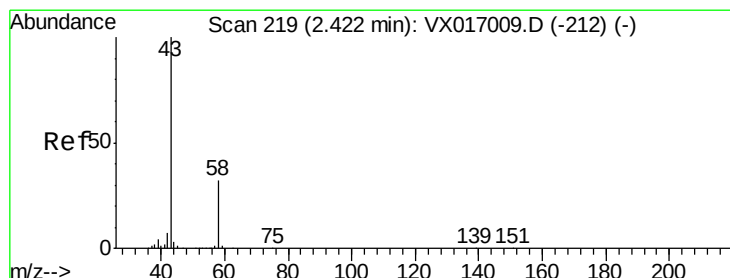
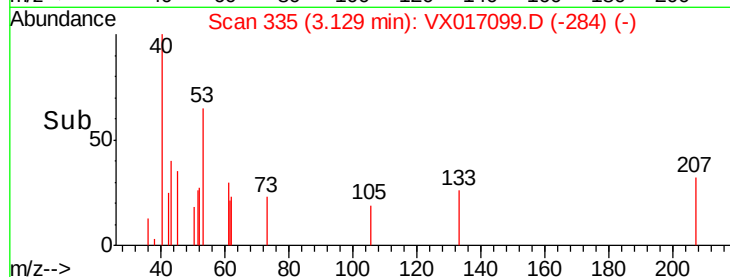
Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



Time-->



#16

Acetone

Concen: 6.424 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017099.D

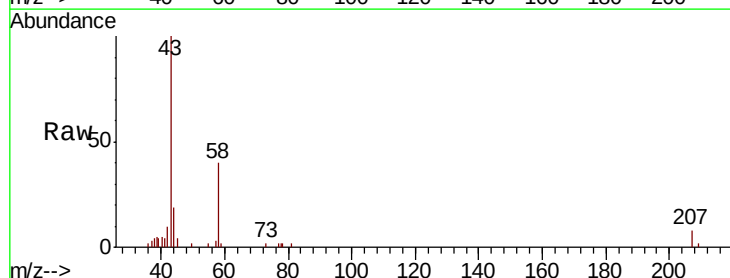
Acq: 01 Jul 2020 15:38

Tgt Ion: 43 Resp: 6496

Ion Ratio Lower Upper

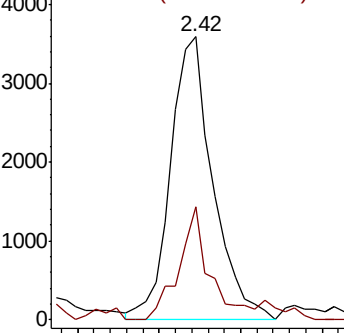
43 100

58 40.1 25.7 38.5#

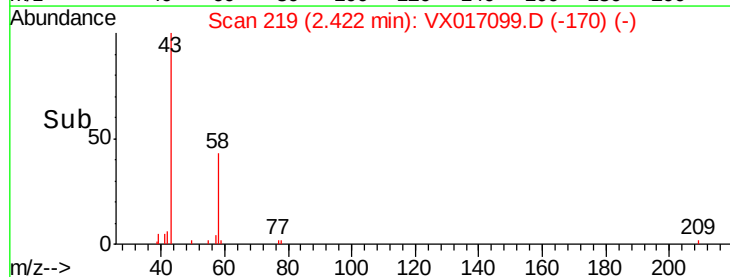


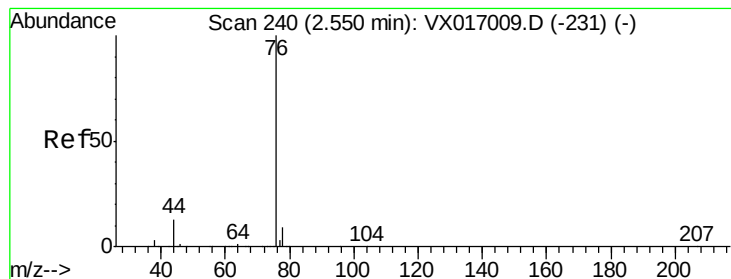
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#17

Carbon Disulfide

Concen: 2.499 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX017099.D

Acq: 01 Jul 2020 15:38

Instrument :

MSVOA_X

ClientSampled :

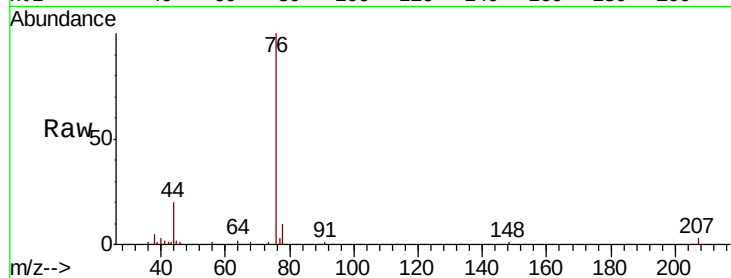
1445

Tot Ion: 76 Resp: 14995

Ion Ratio Lower Upper

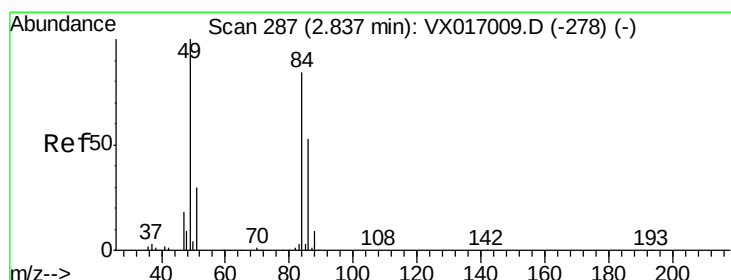
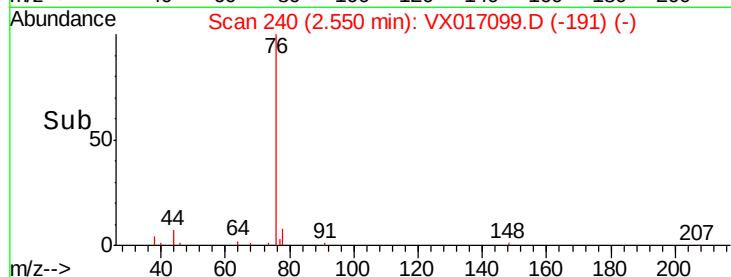
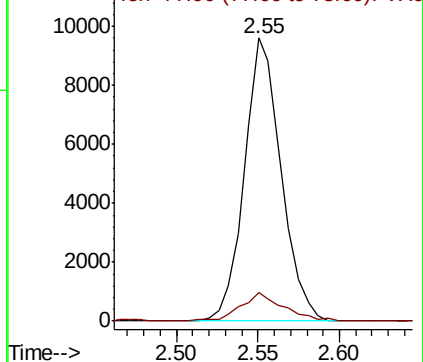
76 100

78 10.3 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 288

Delta R.T. 0.01 min

Lab File: VX017099.D

Acq: 01 Jul 2020 15:38

Tgt Ion: 84 Resp: 1329

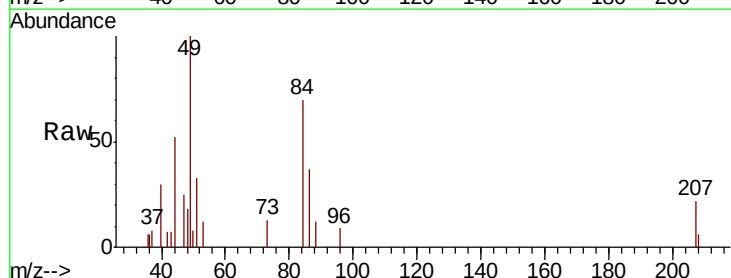
Ion Ratio Lower Upper

84 100

49 142.6 94.7 142.1#

51 47.6 28.6 42.8#

86 52.2 50.5 75.7

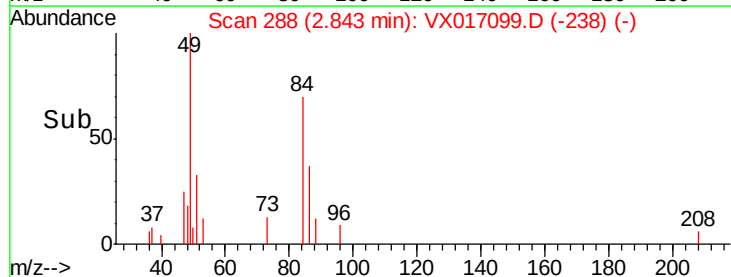
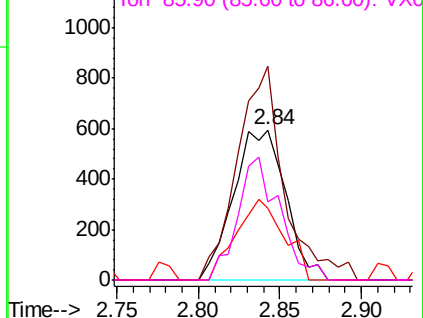


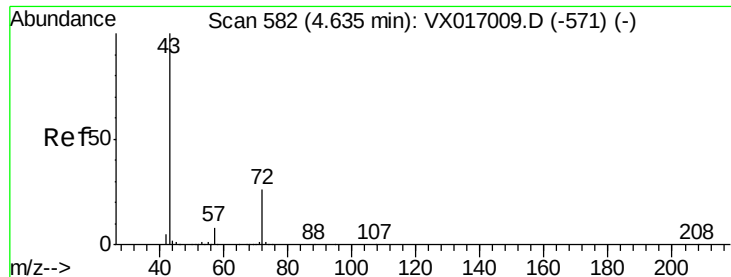
Abundance Ion 83.90 (83.60 to 84.60): VX0

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

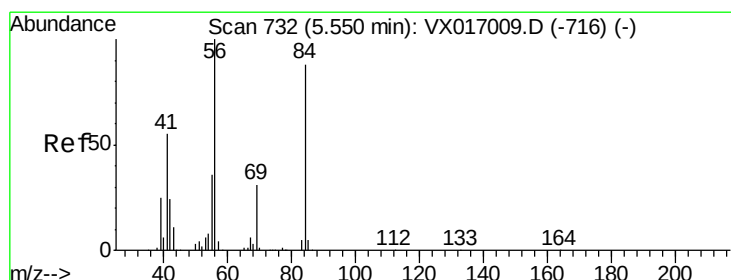
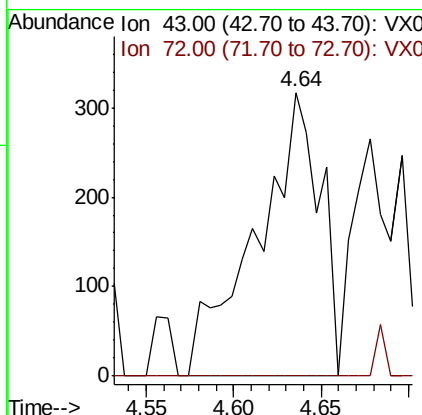
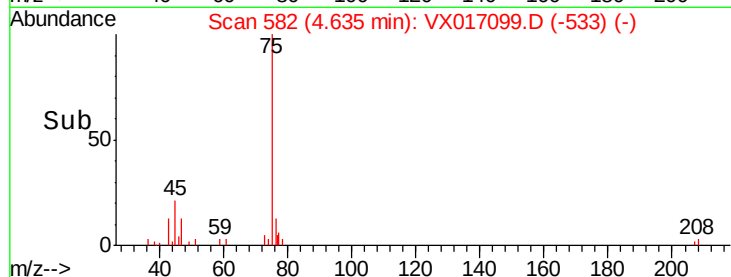
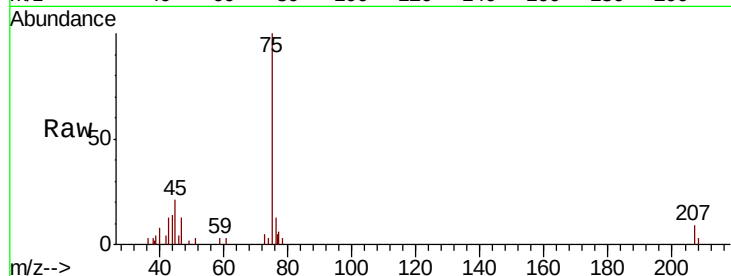




#25
2-Butanone
Concen: 0.475 ug/l
RT: 4.64 min Scan# 582
Delta R.T. -0.00 min
Lab File: VX017099.D
Acq: 01 Jul 2020 15:38

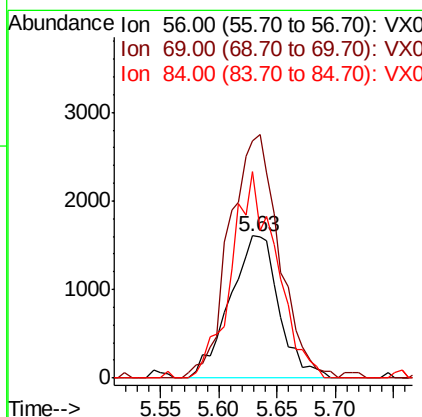
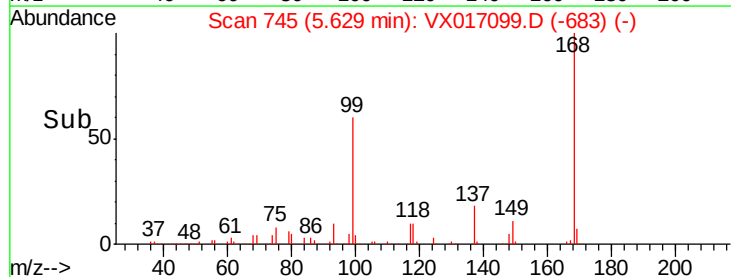
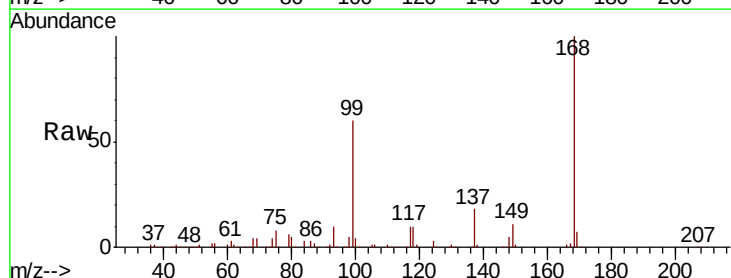
Instrument :
MSVOA_X
ClientSampleId :
1445

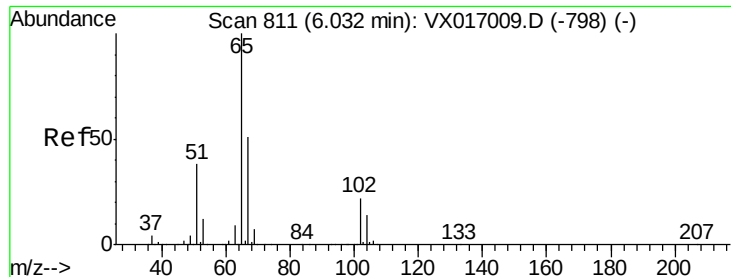
Tot Ion: 43 Resp: 801
Ion Ratio Lower Upper
43 100
72 0.0 20.8 31.2#



#31
Cyclohexane
Concen: 1.285 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX017099.D
Acq: 01 Jul 2020 15:38

Tgt Ion: 56 Resp: 4688
Ion Ratio Lower Upper
56 100
69 166.8 25.0 37.4#
84 145.0 69.1 103.7#





#33

1,2-Dichloroethane-d4

Concen: 54.836 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017099.D

Acq: 01 Jul 2020 15:38

Instrument :

MSVOA_X

ClientSampleId :

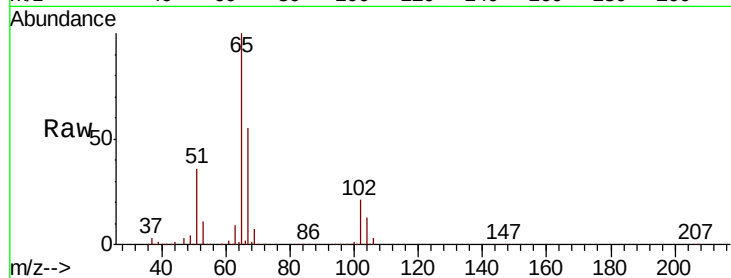
1445

Tot Ion: 65 Resp: 148233

Ion Ratio Lower Upper

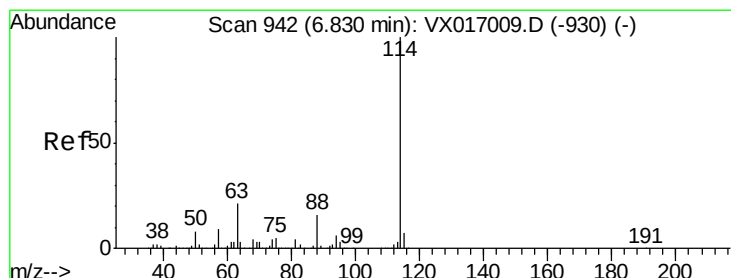
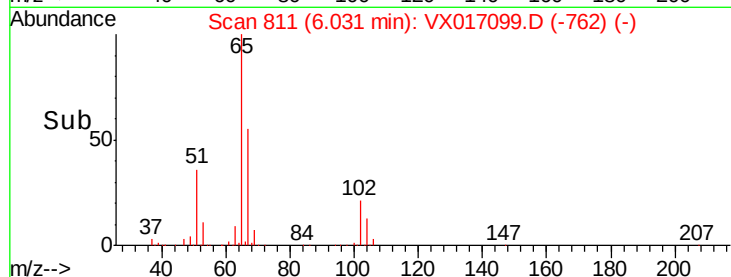
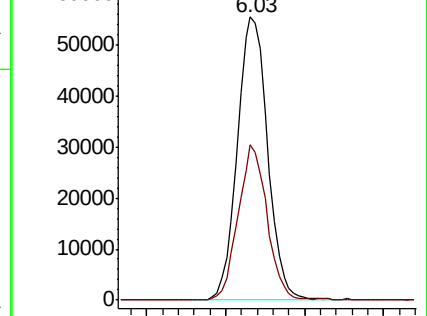
65 100

67 52.3 0.0 103.8



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: VX017099.D

Acq: 01 Jul 2020 15:38

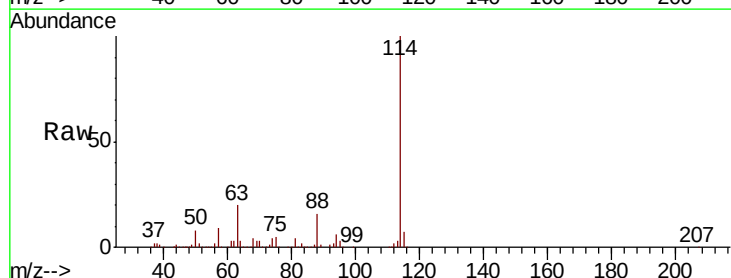
Tgt Ion: 114 Resp: 378852

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.4

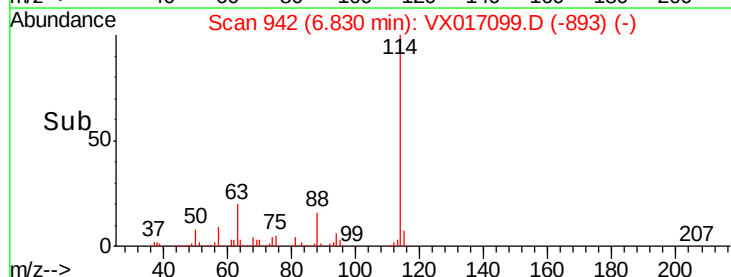
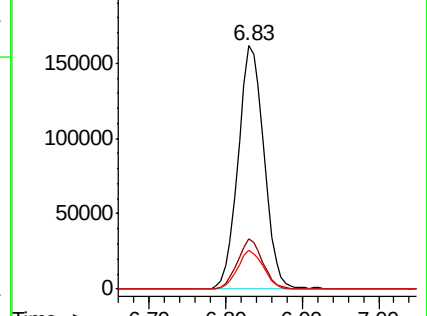
88 15.7 0.0 32.4

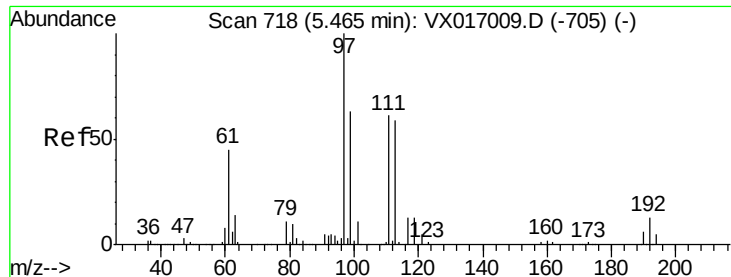


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 53.068 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017099.D

Acq: 01 Jul 2020 15:38

Instrument :

MSVOA_X

ClientSampleId :

1445

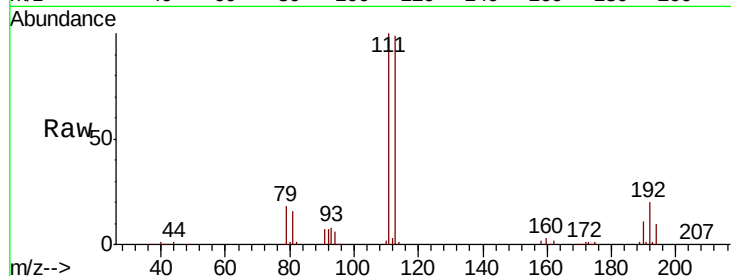
Tot Ion:113 Resp: 127178

Ion Ratio Lower Upper

113 100

111 100.5 81.9 122.9

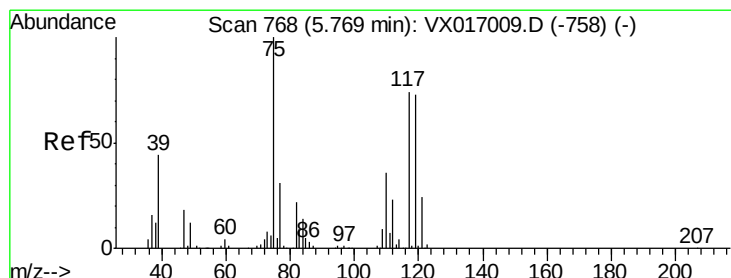
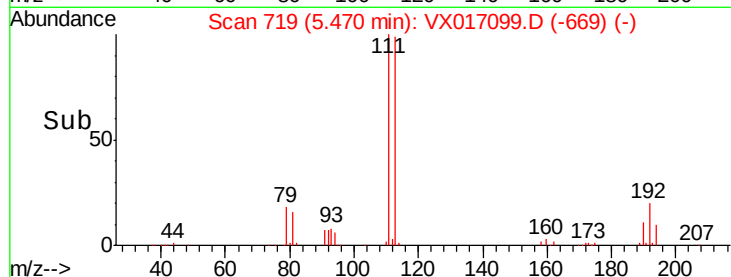
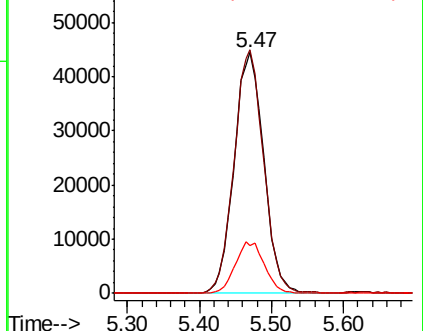
192 21.1 16.7 25.1



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: 4.664 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017099.D

Acq: 01 Jul 2020 15:38

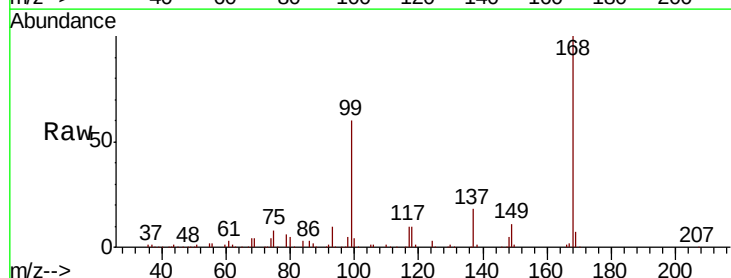
Tgt Ion: 75 Resp: 16700

Ion Ratio Lower Upper

75 100

110 10.9 18.1 54.1#

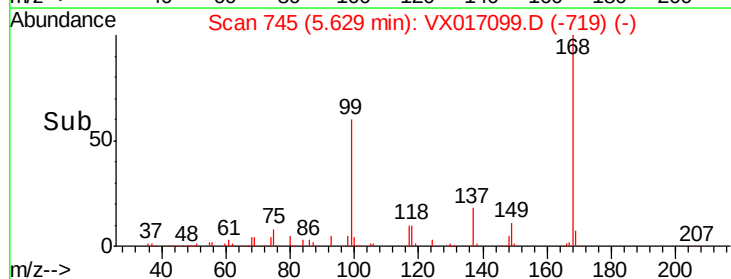
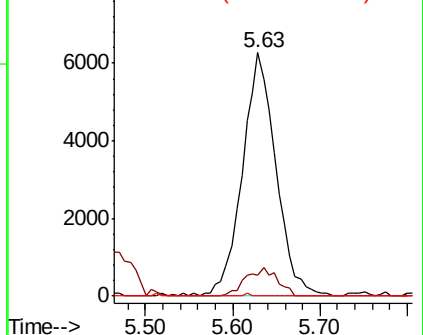
77 0.2 24.6 37.0#

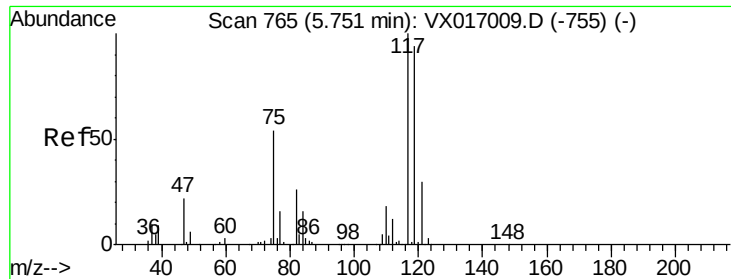


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.424 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX017099.D

Acq: 01 Jul 2020 15:38

Instrument :

MSVOA_X

ClientSampleId :

1445

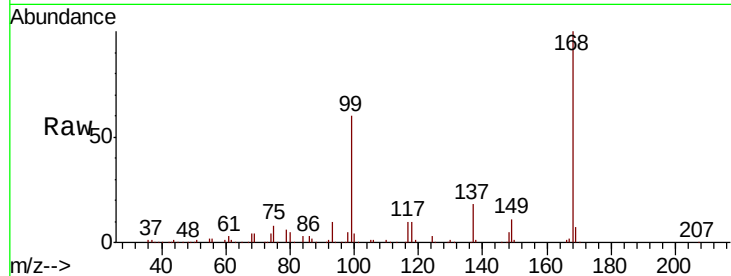
Tot Ion:117 Resp: 21391

Ion Ratio Lower Upper

117 100

119 8.1 75.4 113.0#

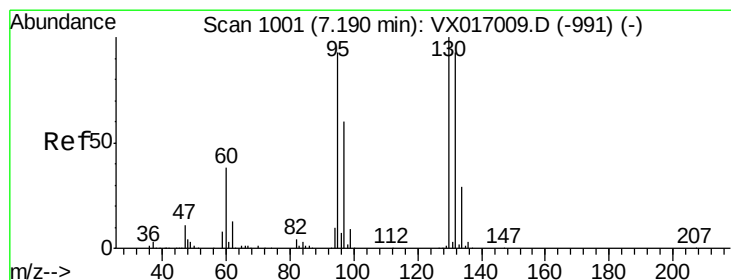
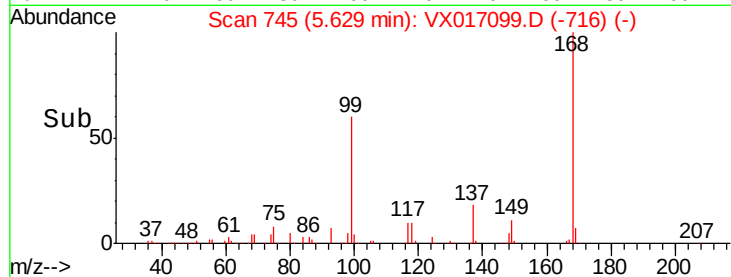
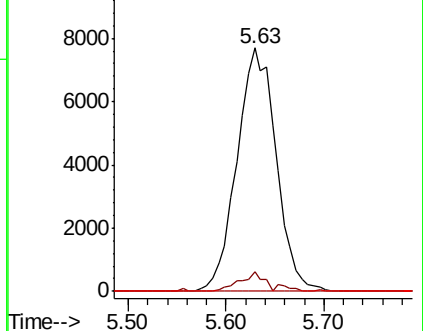
121 0.0 23.8 35.6#



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



#44

Trichloroethene

Concen: Below Cal

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX017099.D

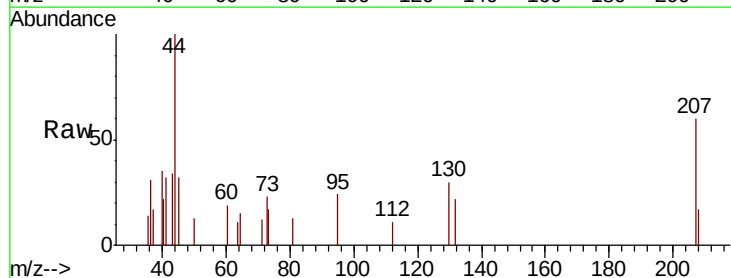
Acq: 01 Jul 2020 15:38

Tgt Ion:130 Resp: 154

Ion Ratio Lower Upper

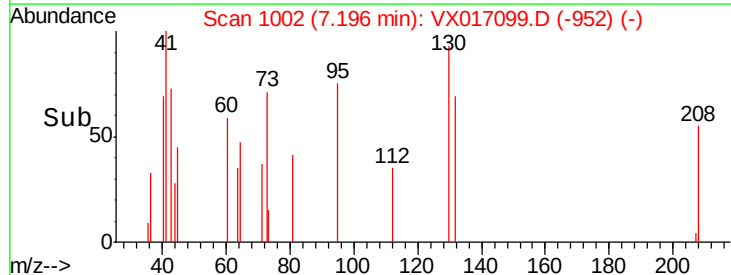
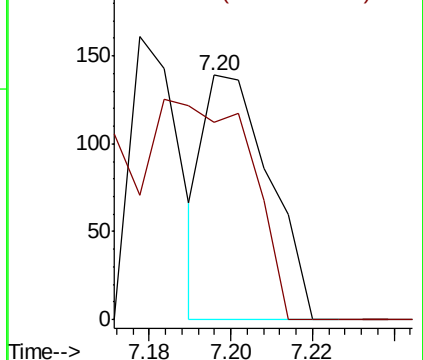
130 100

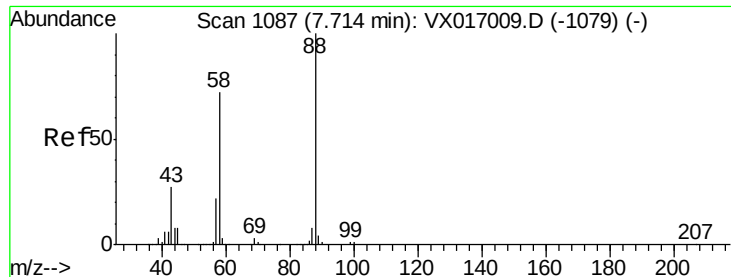
95 80.6 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

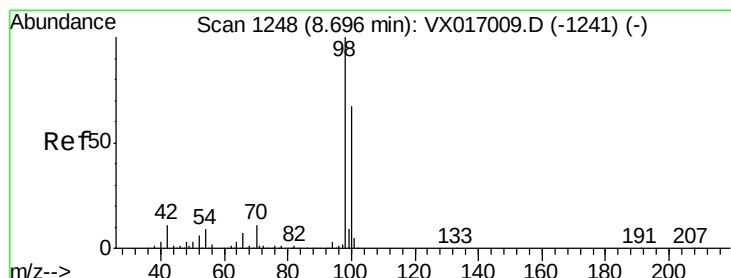
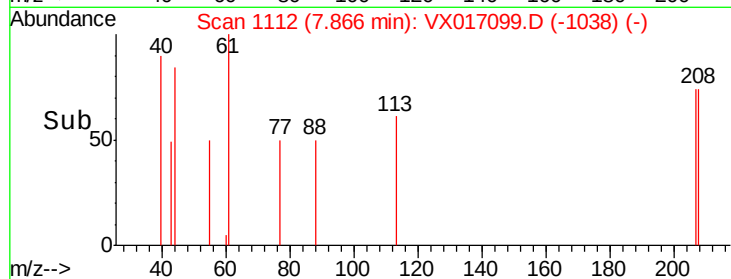
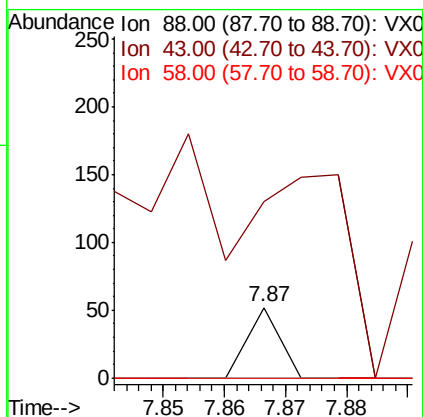
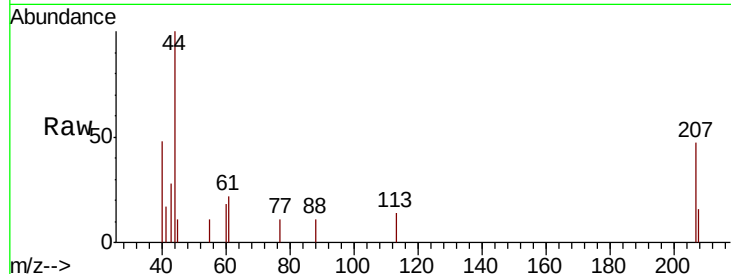




#49
1,4-Dioxane
Concen: 0.292 ug/l
RT: 7.87 min Scan# 1112
Delta R.T. 0.15 min
Lab File: VX017099.D
Acq: 01 Jul 2020 15:38

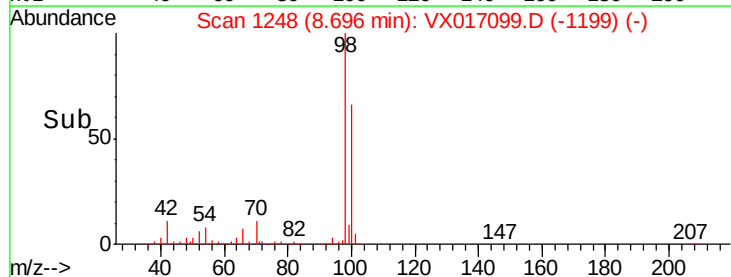
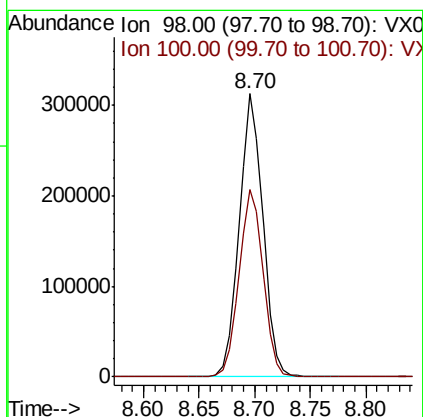
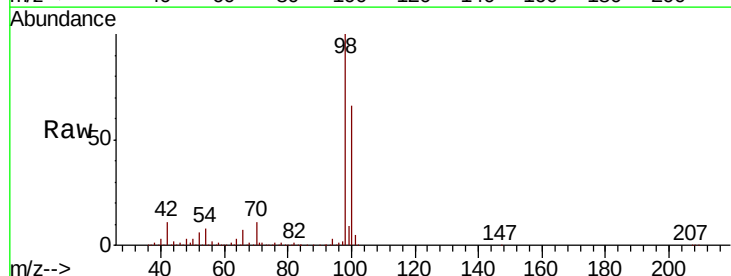
Instrument :
MSVOA_X
ClientSampleId :
1445

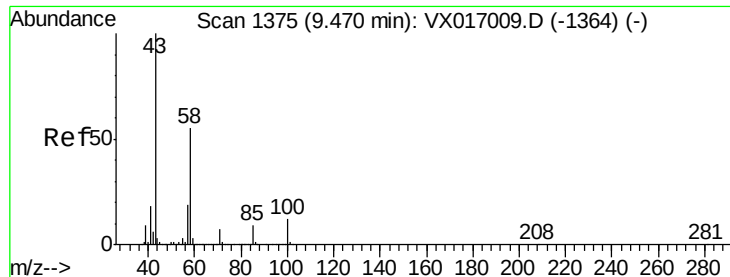
Tot Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 1026.3 25.8 38.8#
58 0.0 54.8 82.2#



#50
Toluene-d8
Concen: 51.916 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017099.D
Acq: 01 Jul 2020 15:38

Tgt Ion: 98 Resp: 460071
Ion Ratio Lower Upper
98 100
100 67.5 53.8 80.6

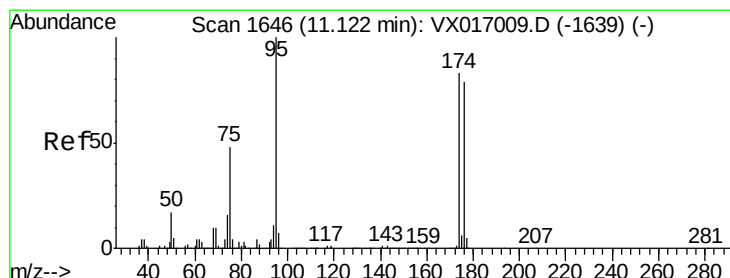
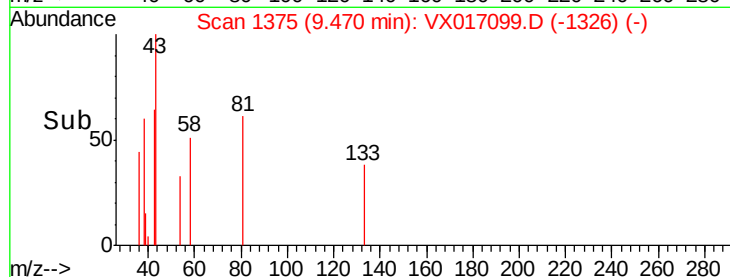
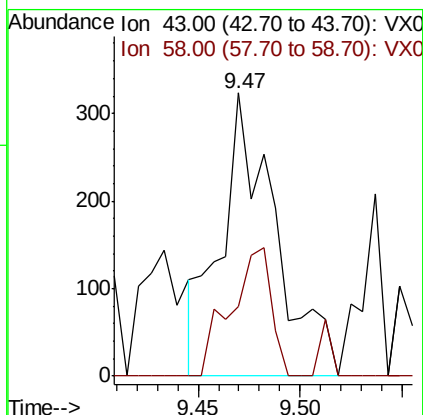
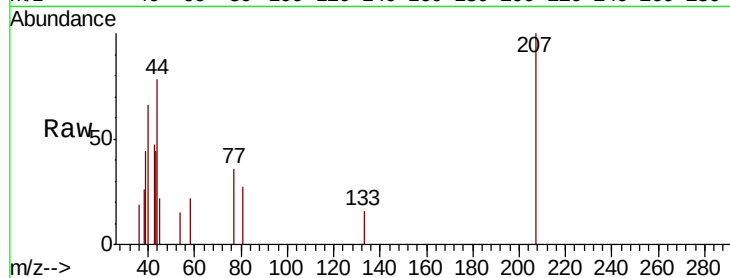




#59
2-Hexanone
Concen: 0.225 ug/l
RT: 9.47 min Scan# 1375
Delta R.T. -0.00 min
Lab File: VX017099.D
Acq: 01 Jul 2020 15:38

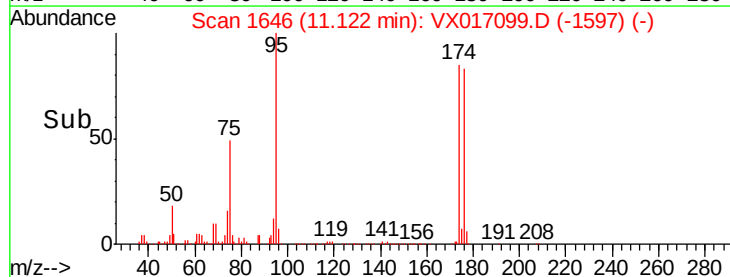
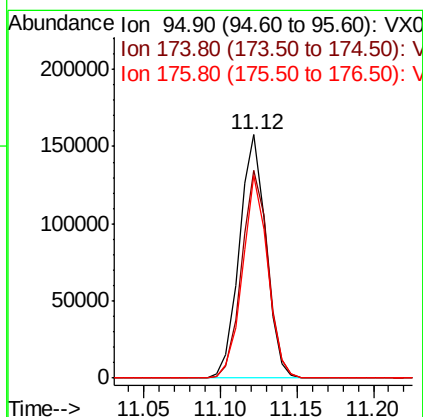
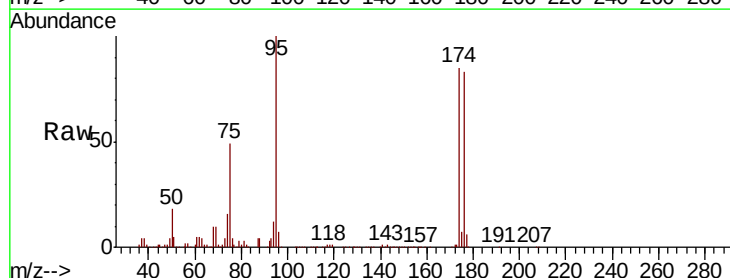
Instrument :
MSVOA_X
ClientSampled :
1445

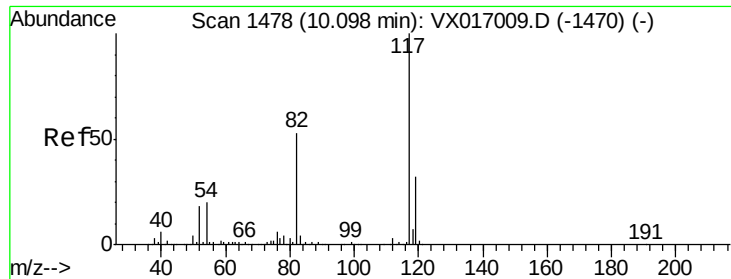
Tot Ion: 43 Resp: 592
Ion Ratio Lower Upper
43 100
58 34.5 27.9 83.6



#62
4-Bromofluorobenzene
Concen: 54.853 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017099.D
Acq: 01 Jul 2020 15:38

Tgt Ion: 95 Resp: 190020
Ion Ratio Lower Upper
95 100
174 84.9 0.0 164.0
176 78.9 0.0 157.6

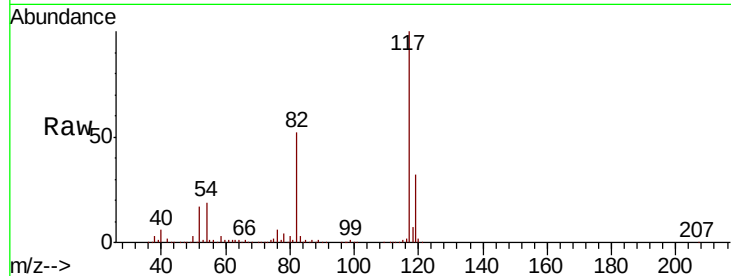




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017099.D
Acq: 01 Jul 2020 15:38

Instrument :
MSVOA_X
ClientSampleId :
1445

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.2	42.6	63.8
119	31.7	25.4	38.2

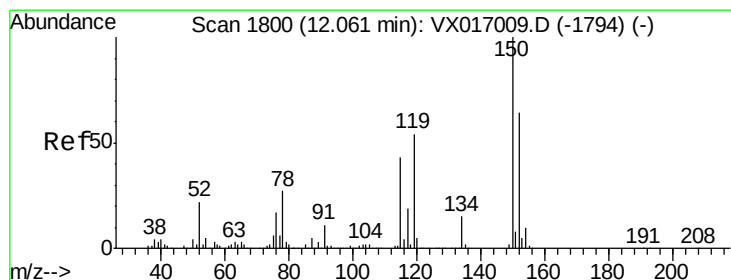
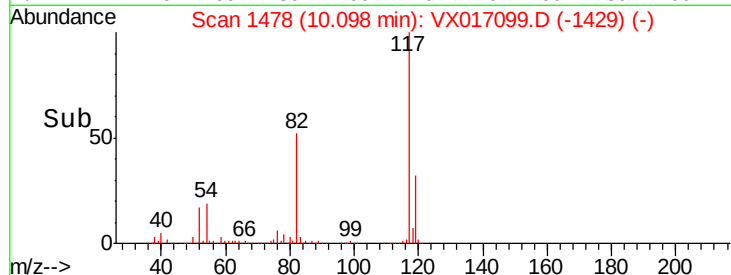
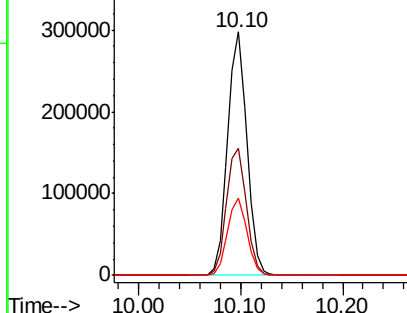


Abundance

Ion 116.90 (116.60 to 117.60): V

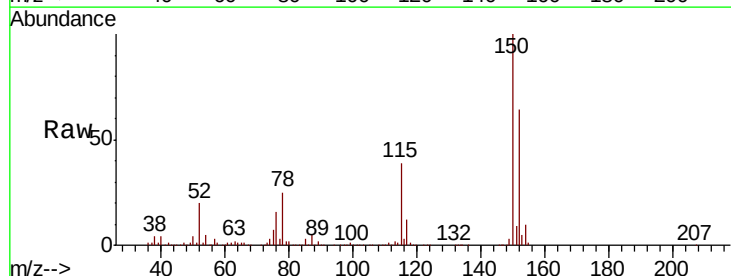
Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017099.D
Acq: 01 Jul 2020 15:38

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.0	40.9	122.7
150	156.3	0.0	351.6

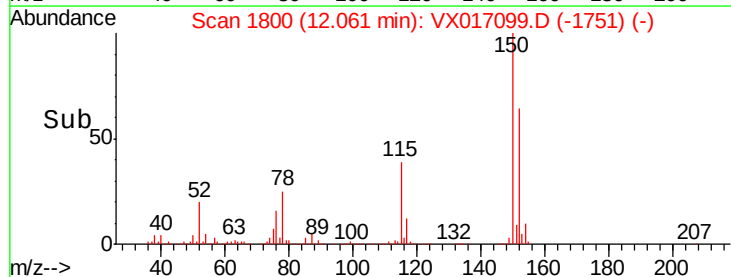
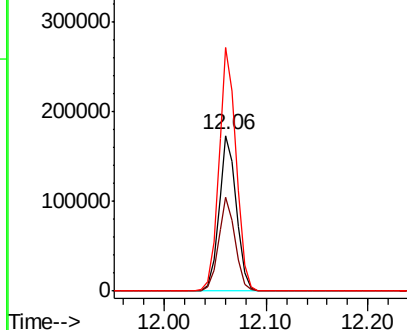


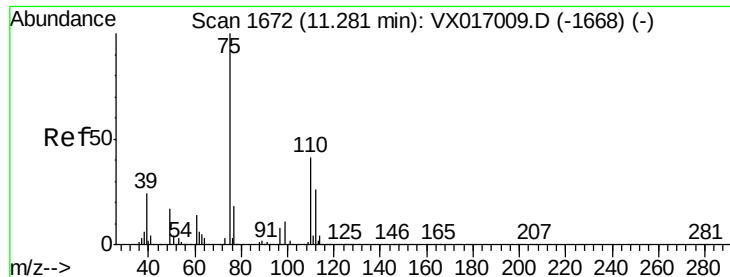
Abundance

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: 23.440 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017099.D

Acq: 01 Jul 2020 15:38

Instrument :

MSVOA_X

ClientSampled :

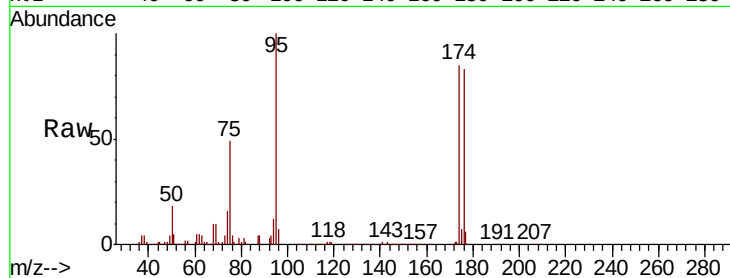
1445

Tot Ion: 75 Resp: 95091

Ion Ratio Lower Upper

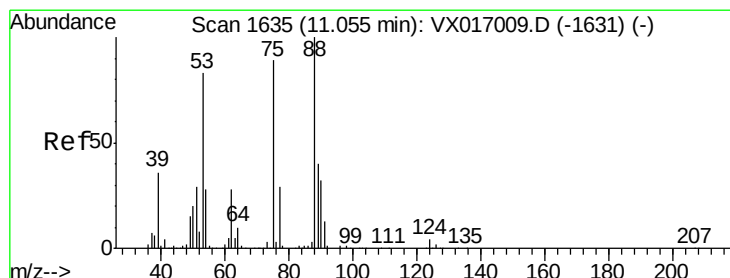
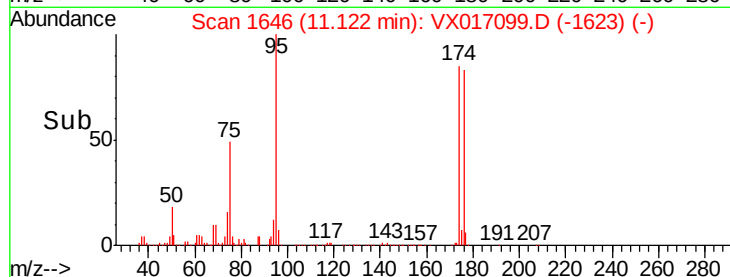
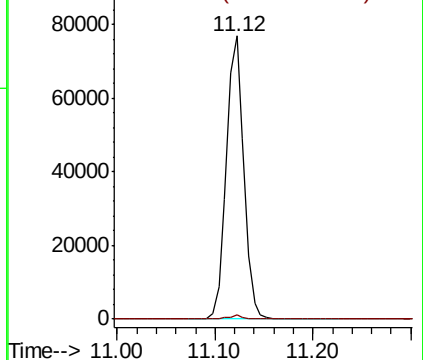
75 100

77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 60.702 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017099.D

Acq: 01 Jul 2020 15:38

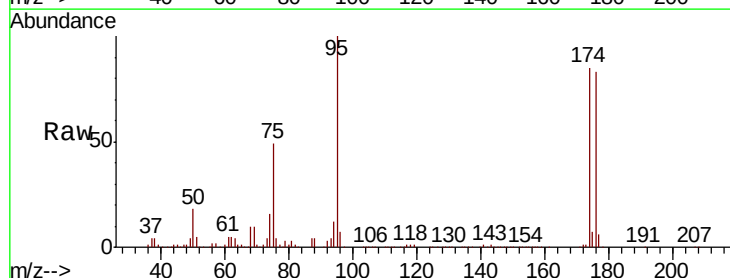
Tgt Ion: 75 Resp: 95091

Ion Ratio Lower Upper

75 100

53 0.2 72.4 108.6#

89 0.0 37.0 55.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

