

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091519\
 Data File : VW013019.D
 Acq On : 15 Sep 2019 04:01
 Operator : SY/VA
 Sample : K4787-03
 Misc : 4.81G/5ML/MSVOA W/SOIL
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 16 06:58:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 13 17:26:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.94	168	331828	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	507390	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	416460	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	155442	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	184213	60.11	ug/l	0.00
Spiked Amount			Recovery	=	120.22%	
35) Dibromofluoromethane	7.88	113	147639	53.63	ug/l	0.00
Spiked Amount			Recovery	=	107.26%	
50) Toluene-d8	10.32	98	607275	56.37	ug/l	0.00
Spiked Amount			Recovery	=	112.74%	
62) 4-Bromofluorobenzene	12.62	95	182419	47.09	ug/l	0.00
Spiked Amount			Recovery	=	94.18%	

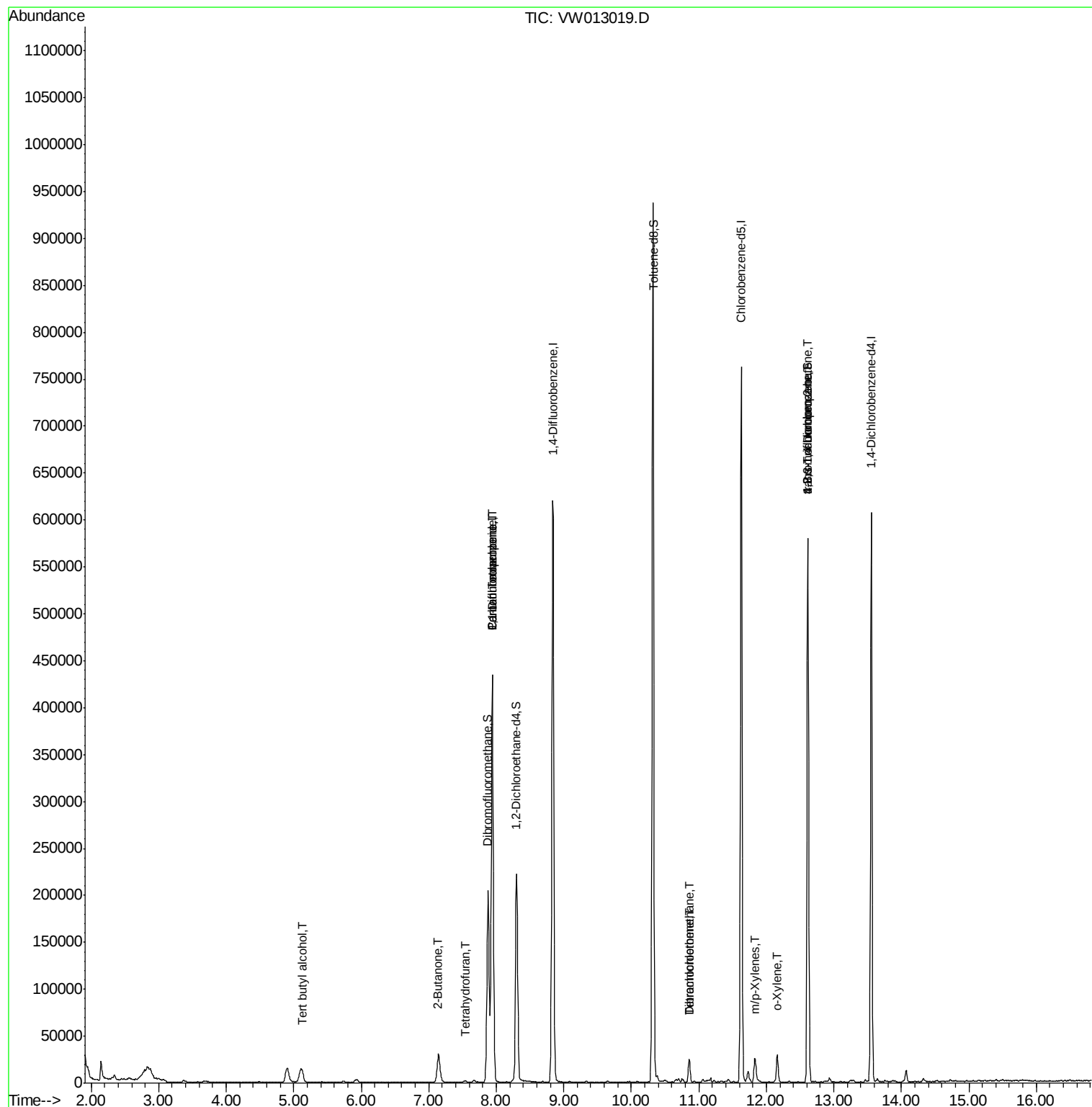
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	101	Below Cal	#	44
3) Chloromethane	2.20	50	196	Below Cal	#	41
11) Tert butyl alcohol	5.12	59	14972	55.726	ug/l #	73
13) Acrolein	3.94	56	27	Below Cal	#	1
16) Acetone	4.07	43	25	Below Cal	#	47
20) Methylene Chloride	4.90	84	11826	Below Cal		92
25) 2-Butanone	7.14	43	2074	2.128	ug/l #	77
26) 2,2-Dichloropropane	7.15	77	2403	Below Cal	#	55
29) Tetrahydrofuran	7.55	42	1402	2.525	ug/l #	92
31) Cyclohexane	7.94	56	7002	Below Cal	#	1
36) 1,1-Dichloropropene	7.94	75	25654	6.327	ug/l #	51
38) Carbon Tetrachloride	7.94	117	32510	7.824	ug/l #	15
60) Dibromochloromethane	10.86	129	4792	1.806	ug/l #	13
64) Tetrachloroethene	10.86	164	5802	2.342	ug/l #	82
68) m/p-Xylenes	11.83	106	7379	1.474	ug/l	99
69) o-Xylene	12.16	106	7548	1.609	ug/l	98
76) 1,2,3-Trichloropropane	12.62	75	94350	69.296	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	94350	157.197	ug/l #	7

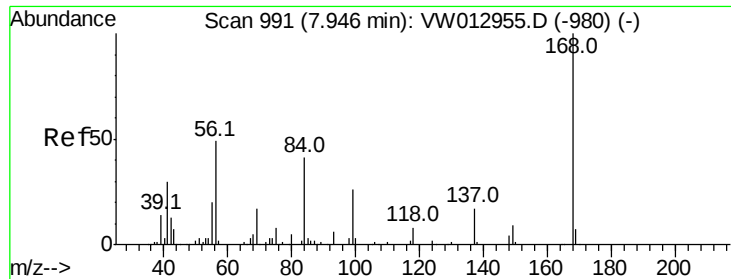
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW013019.D

Acq: 15 Sep 2019 04:01

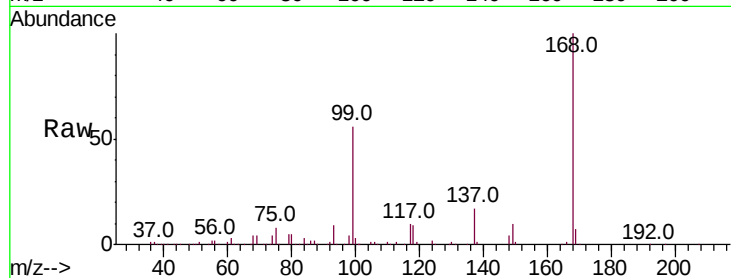
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 331828

Ion Ratio Lower Upper

168 100

99 56.5 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.94

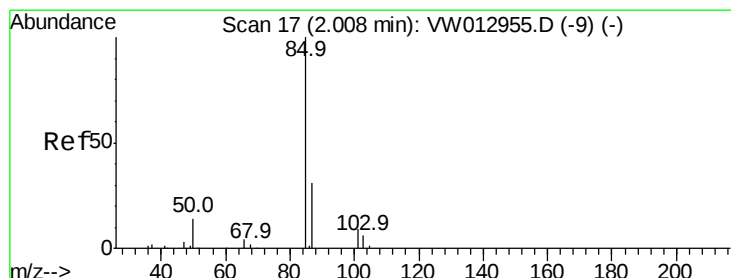
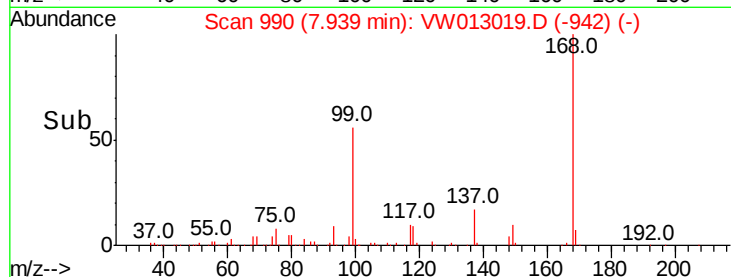
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW013019.D

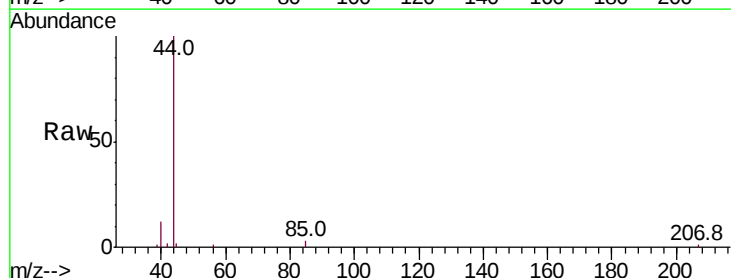
Acq: 15 Sep 2019 04:01

Tgt Ion: 85 Resp: 101

Ion Ratio Lower Upper

85 100

87 0.0 15.4 46.4#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

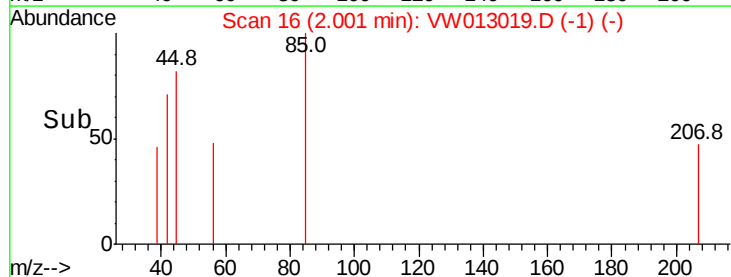
150

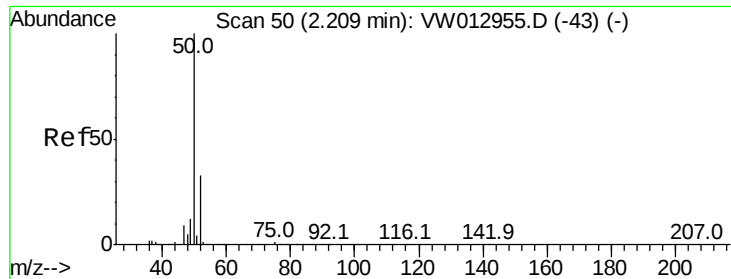
100

50

0

Time--> 1.98 2.00 2.02





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW013019.D

Acq: 15 Sep 2019 04:01

Instrument :

MSVOA_W

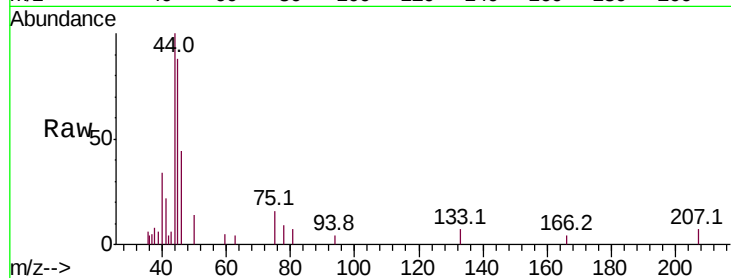
ClientSampleId :

Tot Ion: 50 Resp: 196

Ion Ratio Lower Upper

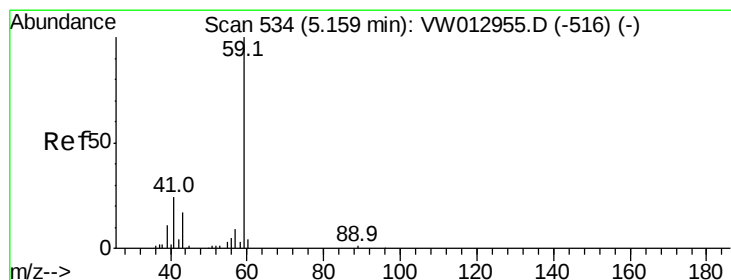
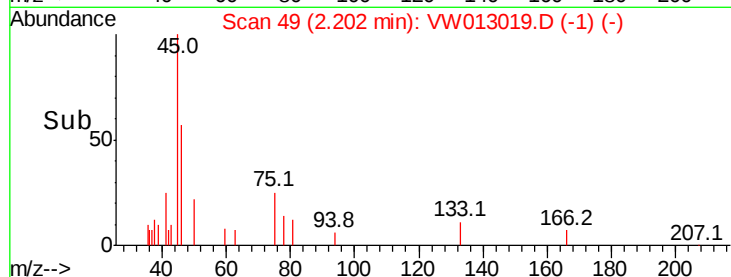
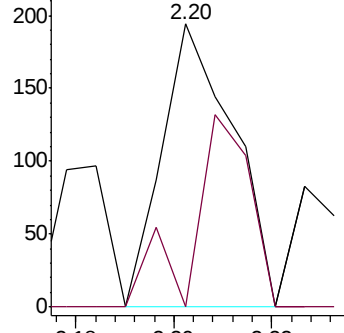
50 100

52 0.0 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#11

Tert butyl alcohol

Concen: 55.726 ug/l

RT: 5.12 min Scan# 528

Delta R.T. -0.04 min

Lab File: VW013019.D

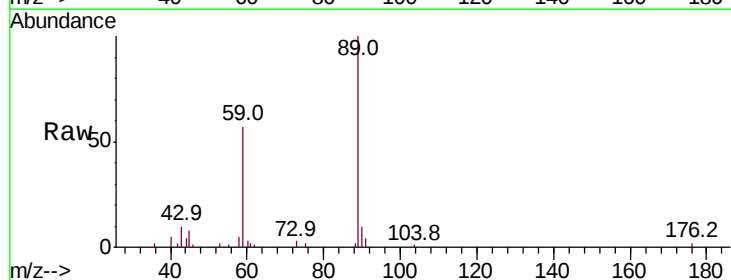
Acq: 15 Sep 2019 04:01

Tgt Ion: 59 Resp: 14972

Ion Ratio Lower Upper

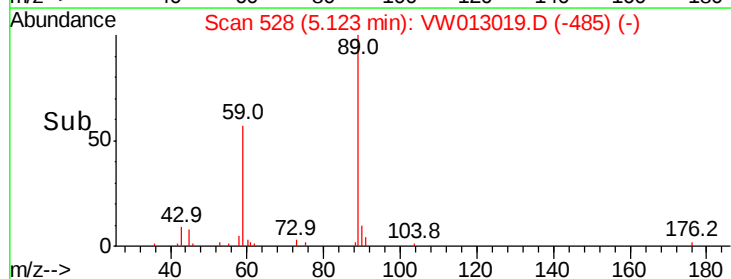
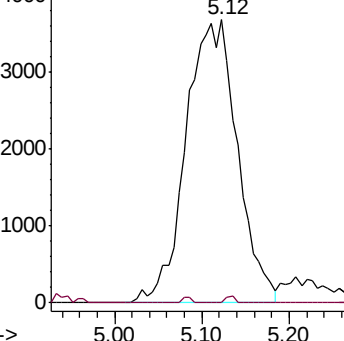
59 100

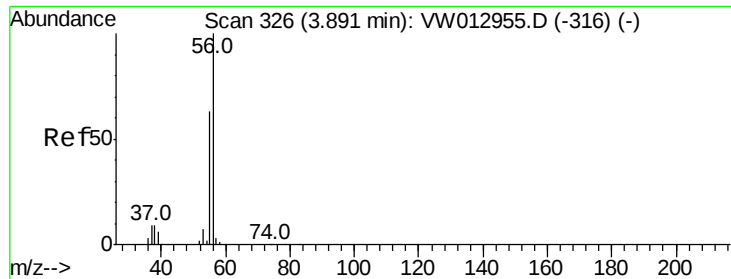
57 0.4 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: Below Cal

RT: 3.94 min Scan# 334

Delta R.T. 0.05 min

Lab File: VW013019.D

Acq: 15 Sep 2019 04:01

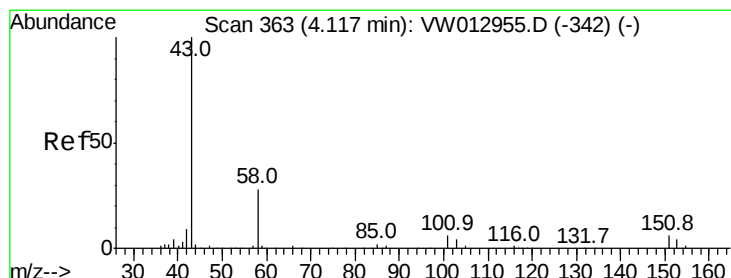
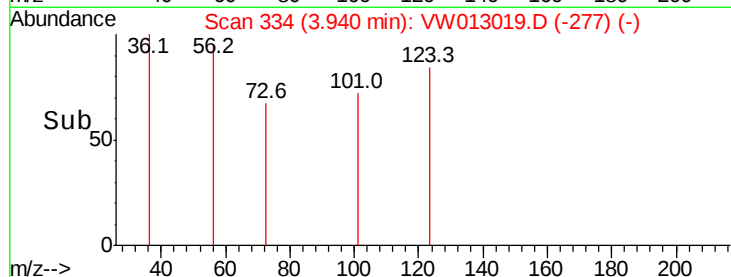
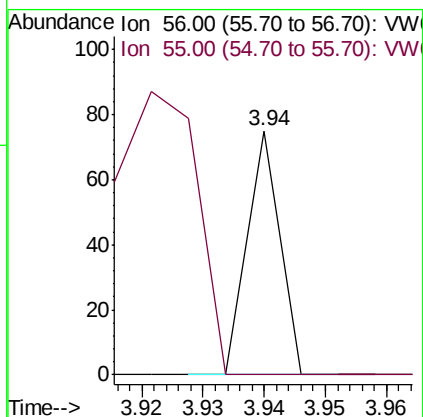
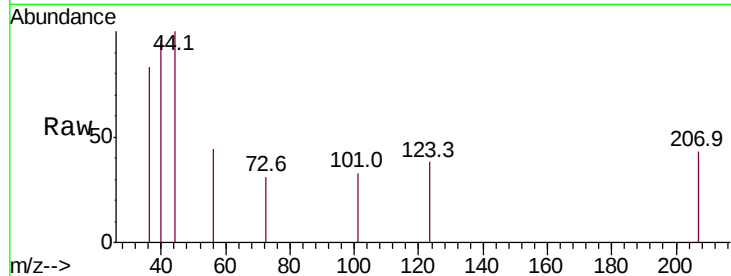
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 27

Ion Ratio Lower Upper

56 100

55 303.7 55.8 83.8#



#16

Acetone

Concen: Below Cal

RT: 4.07 min Scan# 356

Delta R.T. -0.04 min

Lab File: VW013019.D

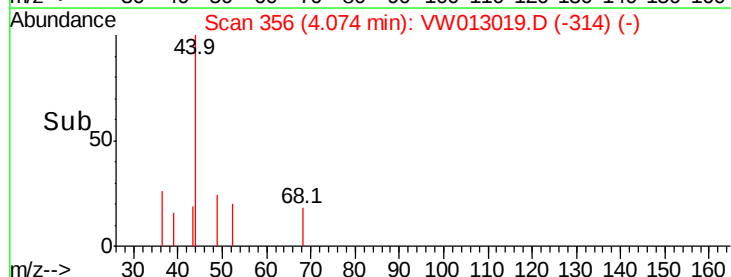
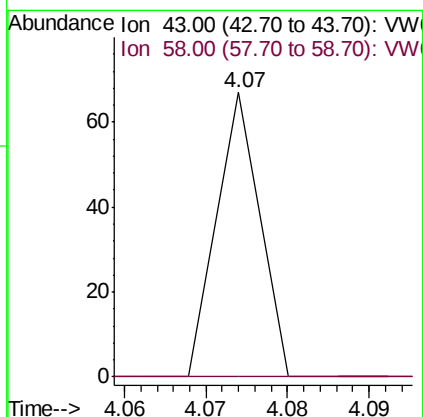
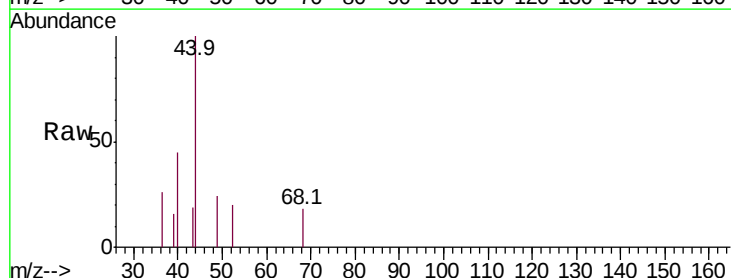
Acq: 15 Sep 2019 04:01

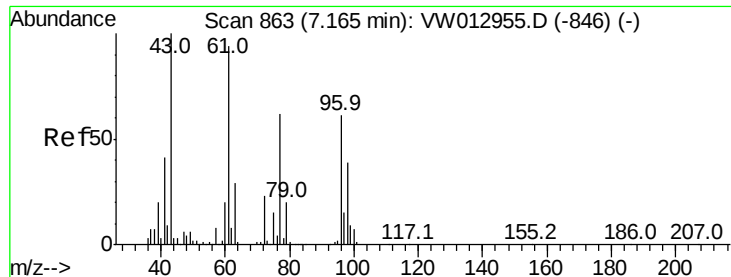
Tgt Ion: 43 Resp: 25

Ion Ratio Lower Upper

43 100

58 0.0 22.3 33.5#





#25

2-Butanone

Concen: 2.128 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW013019.D

Acq: 15 Sep 2019 04:01

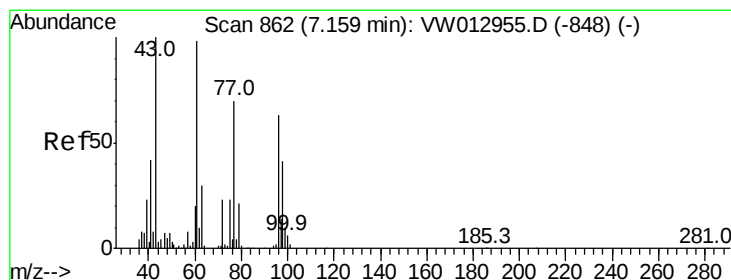
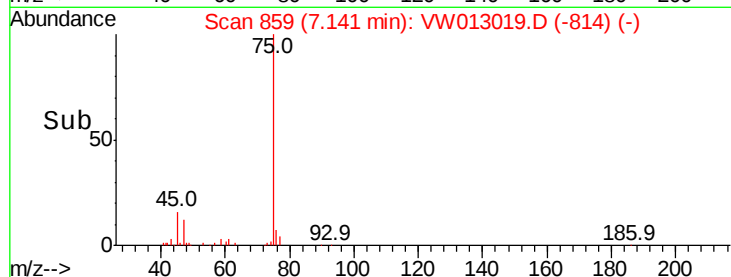
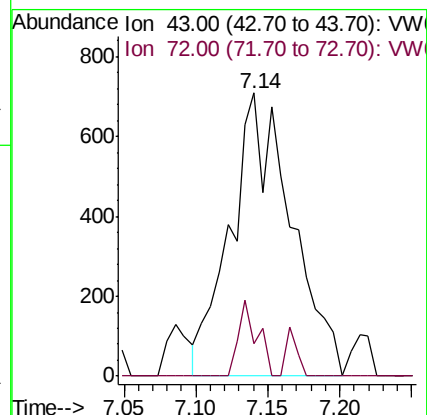
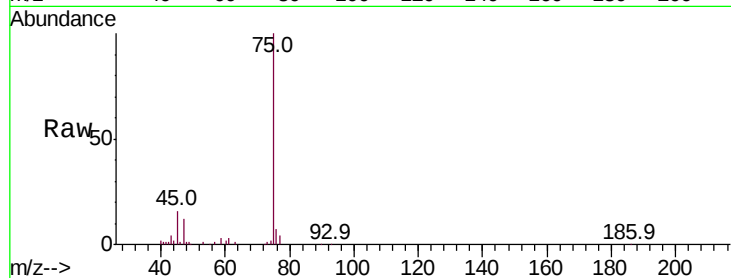
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 43 Resp: 2074

Ion Ratio Lower Upper

43 100

72 11.7 18.2 27.4#



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.15 min Scan# 860

Delta R.T. -0.01 min

Lab File: VW013019.D

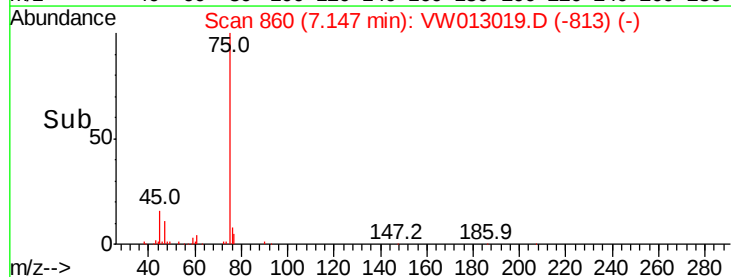
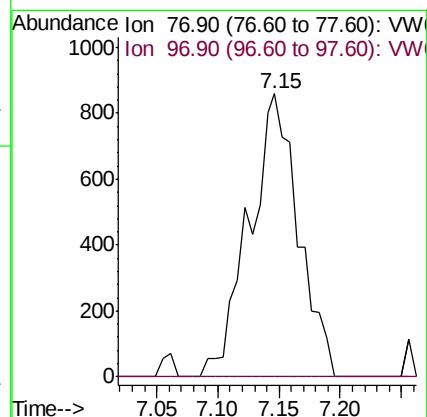
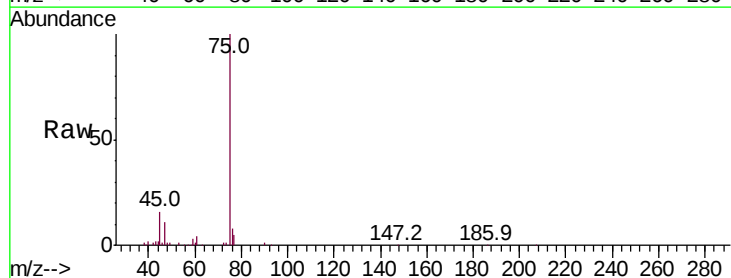
Acq: 15 Sep 2019 04:01

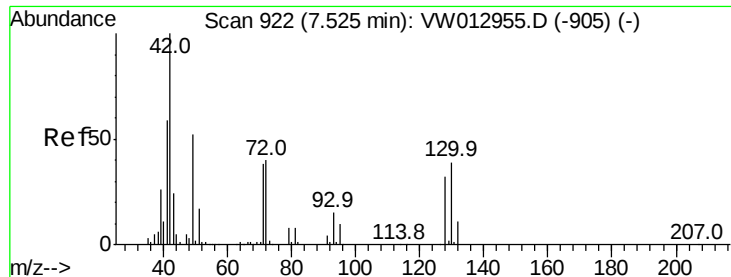
Tgt Ion: 77 Resp: 2403

Ion Ratio Lower Upper

77 100

97 0.0 10.7 32.1#

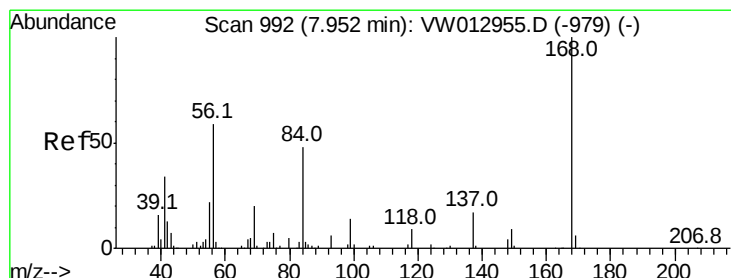
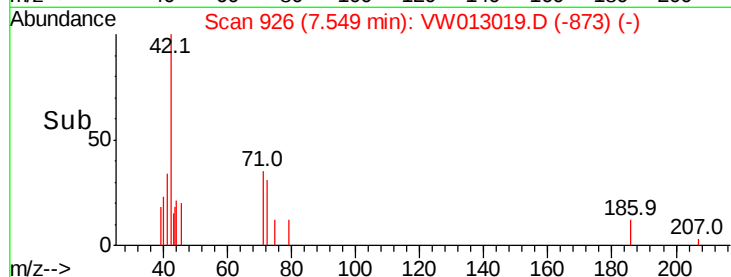
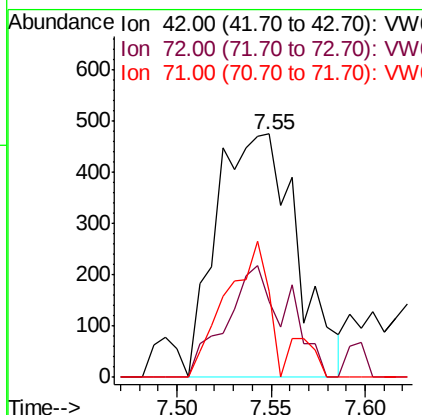
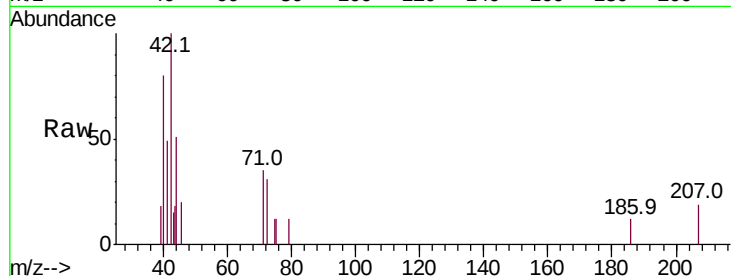




#29
Tetrahydrofuran
Concen: 2.525 ug/l
RT: 7.55 min Scan# 926
Delta R.T. 0.02 min
Lab File: VW013019.D
Acq: 15 Sep 2019 04:01

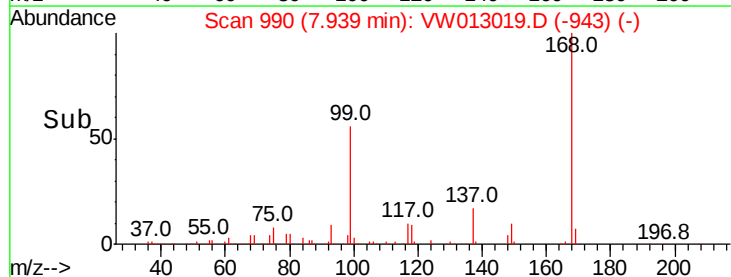
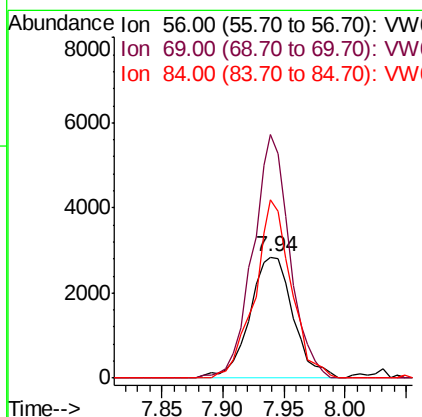
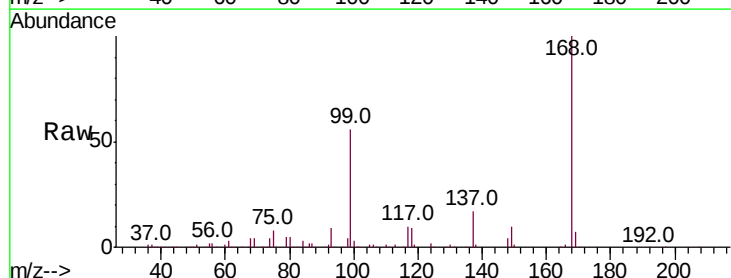
Instrument :
MSVOA_W
ClientSampled :

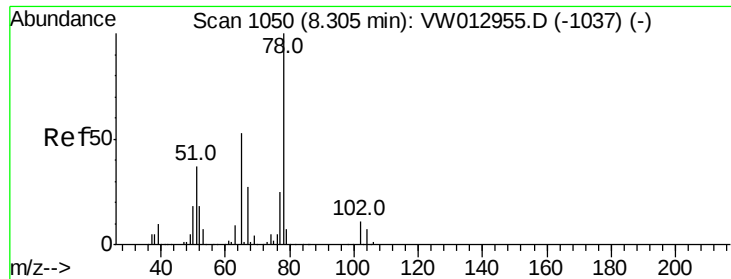
Tot Ion: 42 Resp: 1402
Ion Ratio Lower Upper
42 100
72 35.1 31.4 47.0
71 31.2 29.8 44.8



#31
Cyclohexane
Concen: Below Cal
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW013019.D
Acq: 15 Sep 2019 04:01

Tgt Ion: 56 Resp: 7002
Ion Ratio Lower Upper
56 100
69 200.6 27.0 40.6#
84 147.4 66.2 99.2#





#33

1,2-Dichloroethane-d4

Concen: 60.109 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW013019.D

Acq: 15 Sep 2019 04:01

Instrument :

MSVOA_W

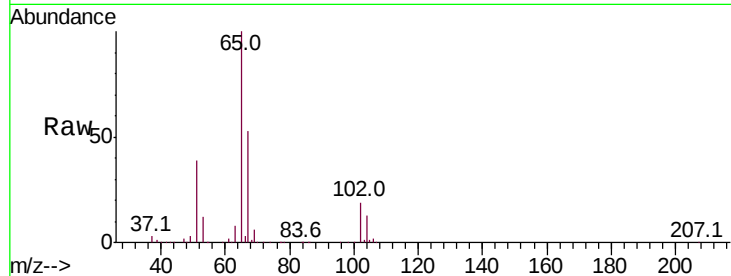
ClientSampleId :

Tot Ion: 65 Resp: 184213

Ion Ratio Lower Upper

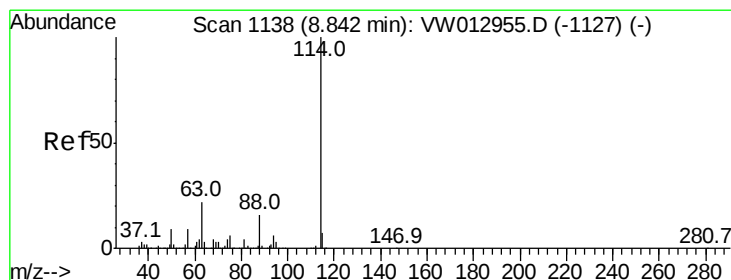
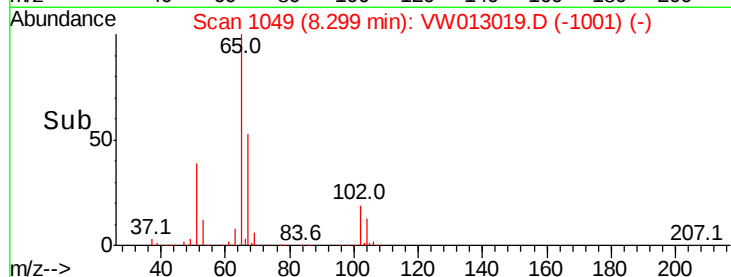
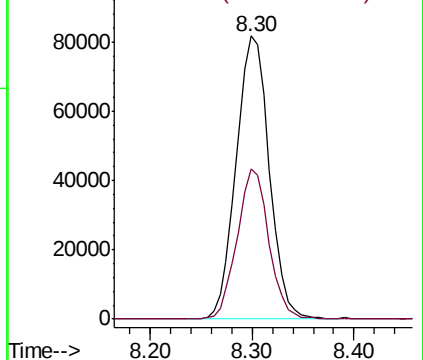
65 100

67 51.0 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW013019.D

Acq: 15 Sep 2019 04:01

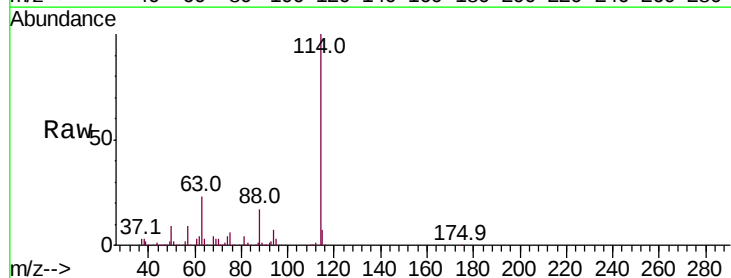
Tgt Ion: 114 Resp: 507390

Ion Ratio Lower Upper

114 100

63 22.6 0.0 43.4

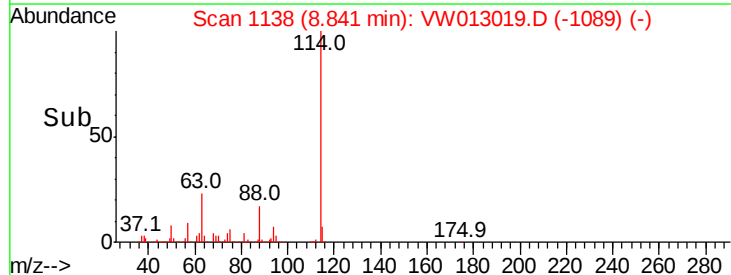
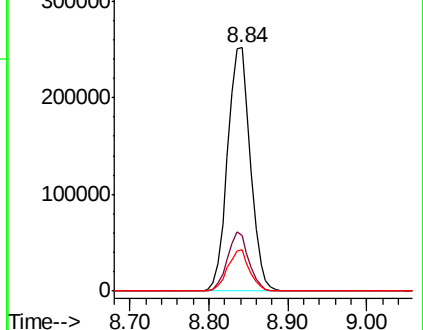
88 16.9 0.0 31.6

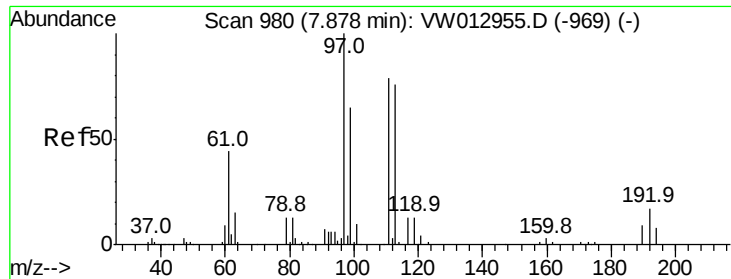


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

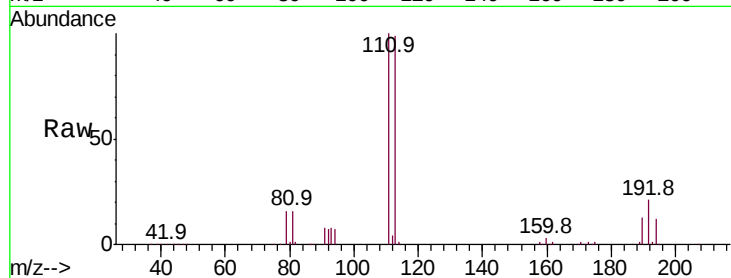




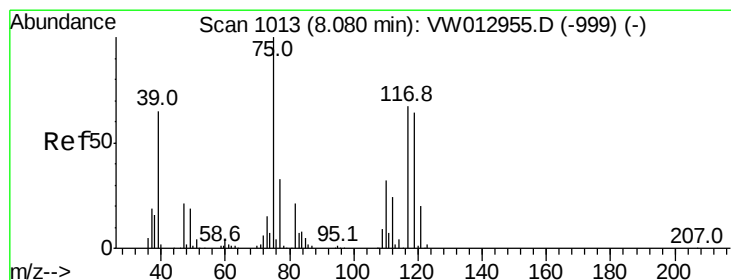
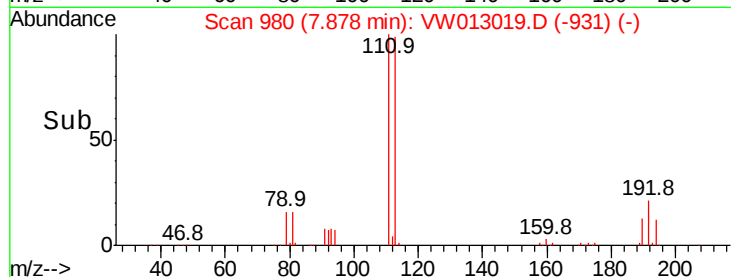
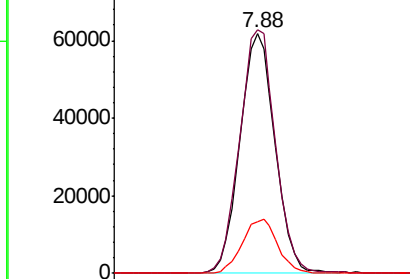
#35
 Dibromofluoromethane
 Concen: 53.625 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: VW013019.D
 Acq: 15 Sep 2019 04:01

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.8	124.2
192	22.7	17.8	26.8

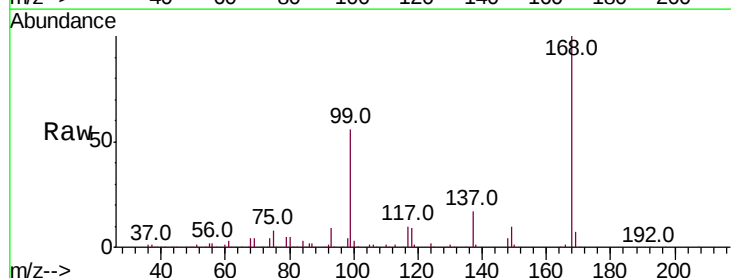


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

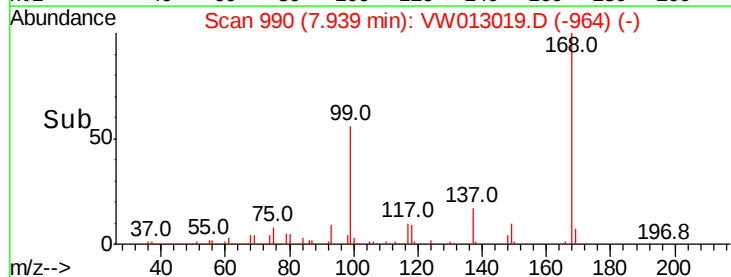
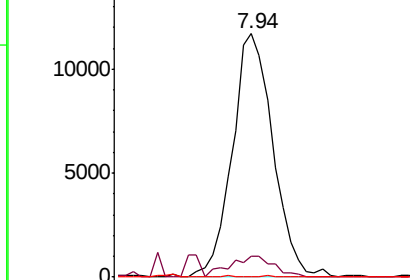


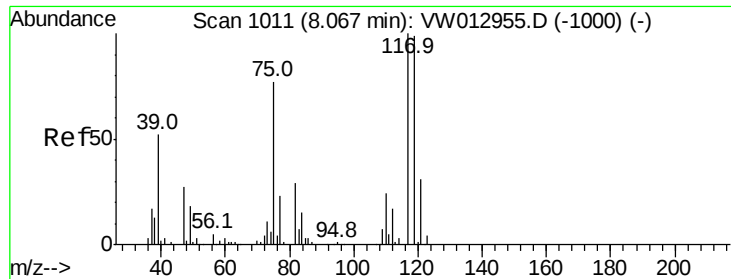
#36
 1,1-Dichloropropene
 Concen: 6.327 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW013019.D
 Acq: 15 Sep 2019 04:01

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	16.4	49.1#
77	0.1	25.1	37.7#



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

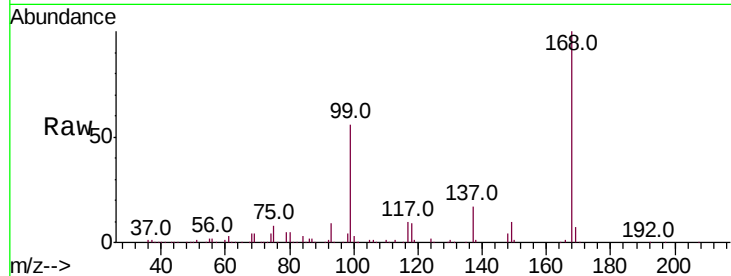




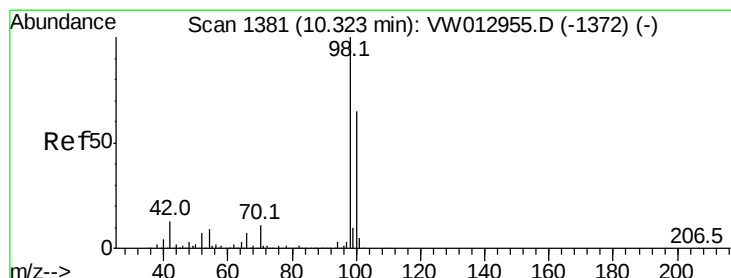
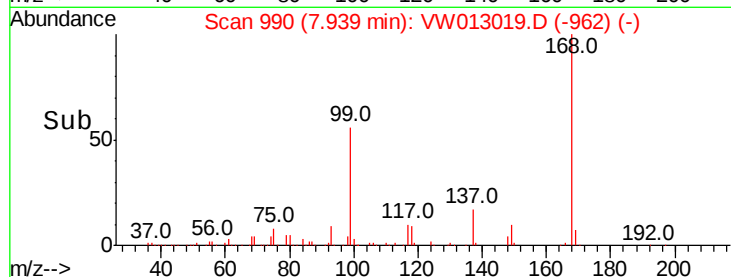
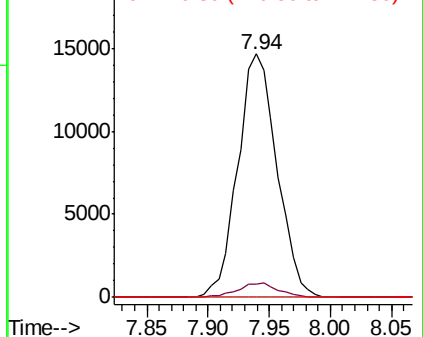
#38
Carbon Tetrachloride
Concen: 7.824 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.13 min
Lab File: VW013019.D
Acq: 15 Sep 2019 04:01

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 32510
Ion Ratio Lower Upper
117 100
119 5.5 79.4 119.0#
121 0.0 24.6 36.8#

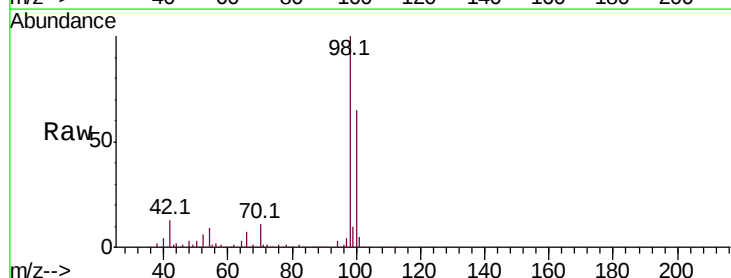


Abundance Ion 116.80 (116.50 to 117.50): V
20000 Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

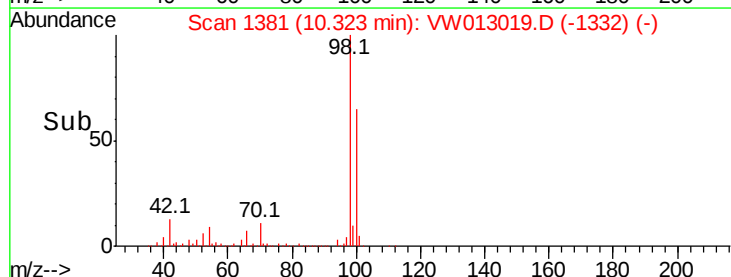
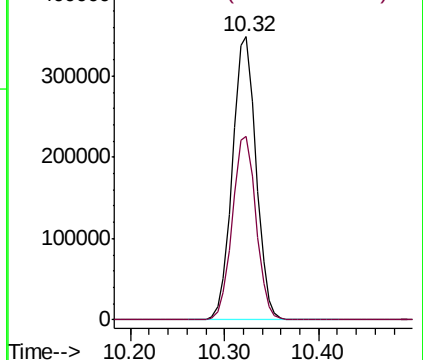


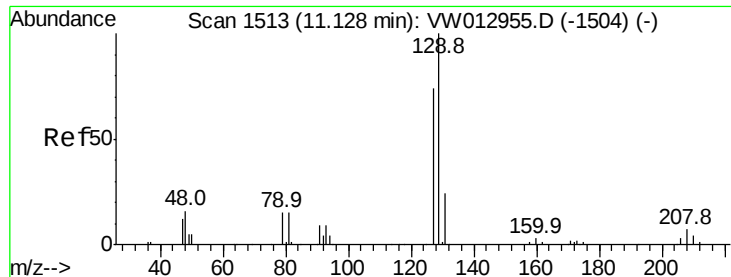
#50
Toluene-d8
Concen: 56.368 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW013019.D
Acq: 15 Sep 2019 04:01

Tgt Ion: 98 Resp: 607275
Ion Ratio Lower Upper
98 100
100 65.1 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VW
400000 Ion 100.00 (99.70 to 100.70): V

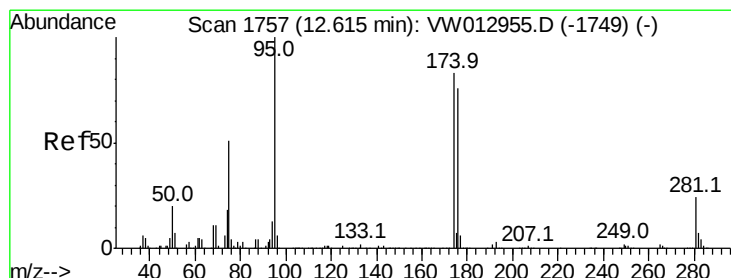
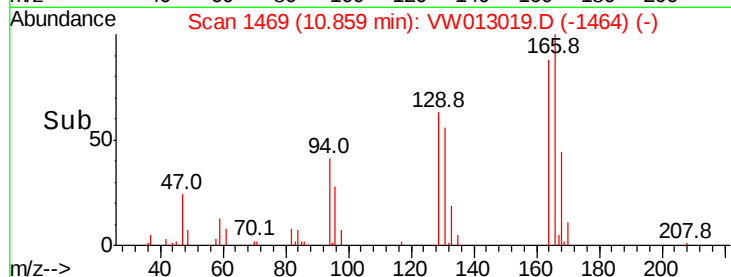
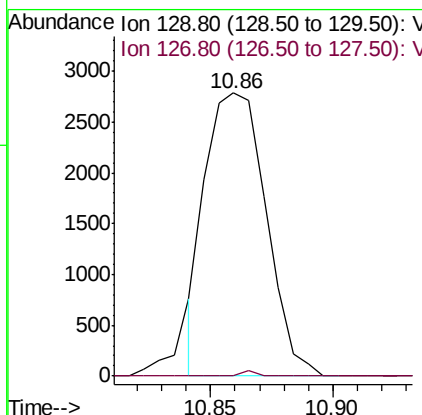
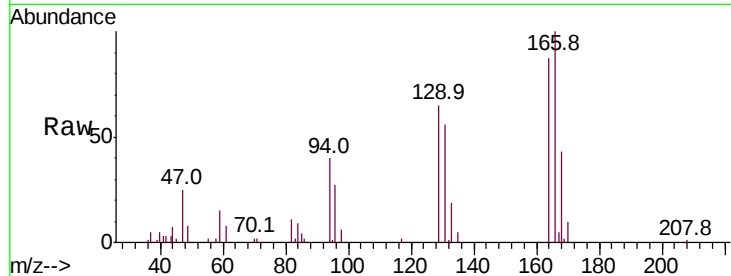




#60
Dibromochloromethane
Concen: 1.806 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.27 min
Lab File: VW013019.D
Acq: 15 Sep 2019 04:01

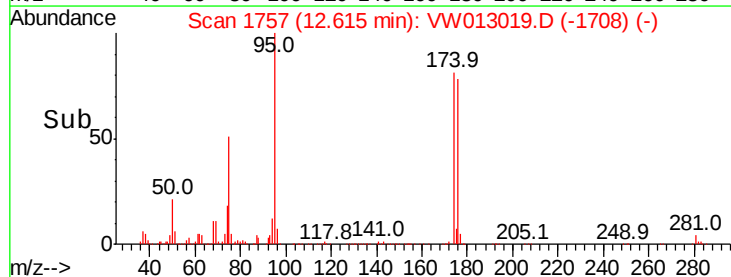
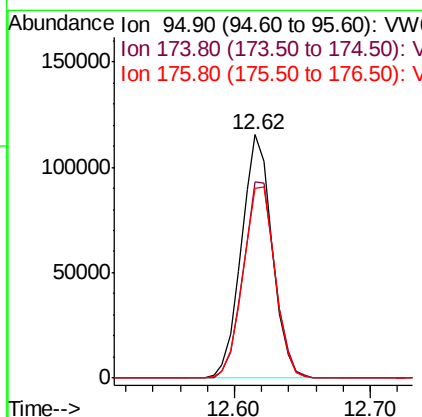
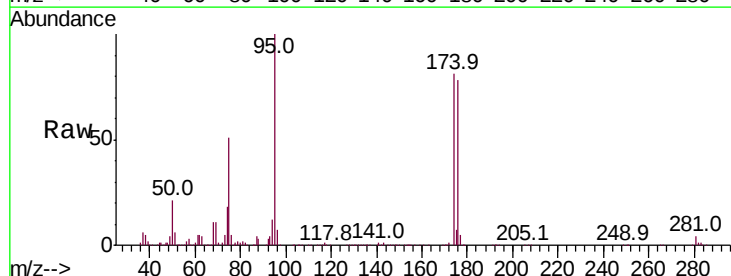
Instrument :
MSVOA_W
ClientSampleId :

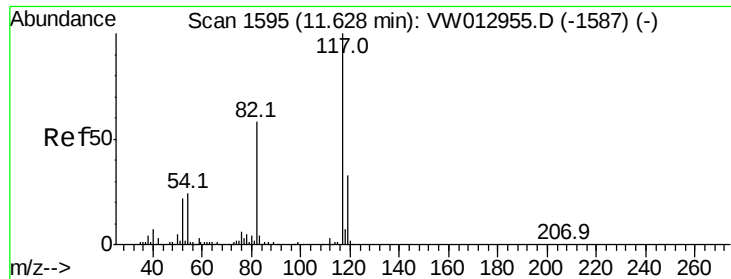
Tot Ion:129 Resp: 4792
Ion Ratio Lower Upper
129 100
127 0.4 37.4 112.2#



#62
4-Bromofluorobenzene
Concen: 47.089 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW013019.D
Acq: 15 Sep 2019 04:01

Tgt Ion: 95 Resp: 182419
Ion Ratio Lower Upper
95 100
174 83.3 0.0 170.4
176 81.9 0.0 164.6

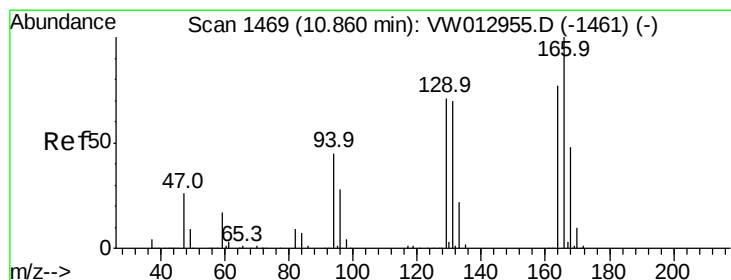
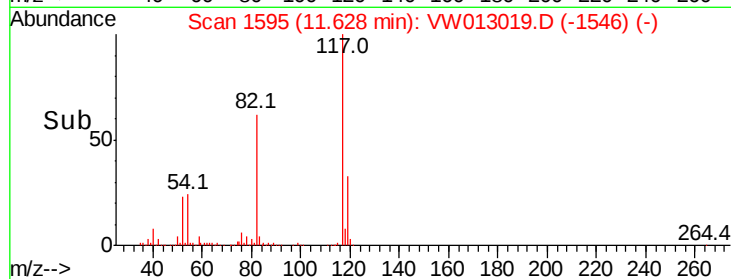
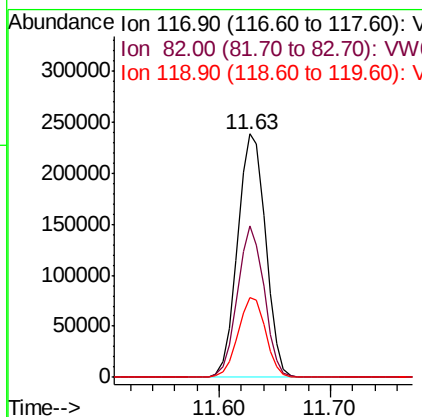
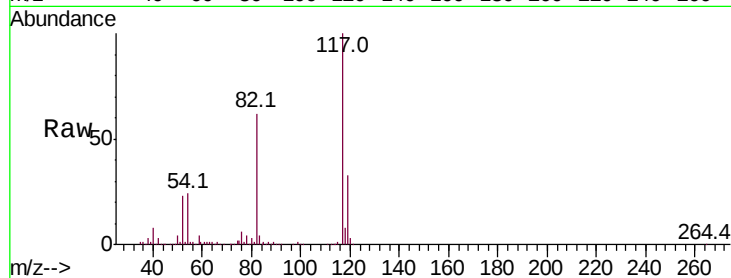




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013019.D
Acq: 15 Sep 2019 04:01

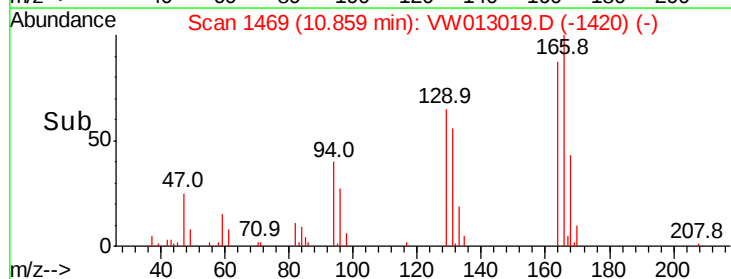
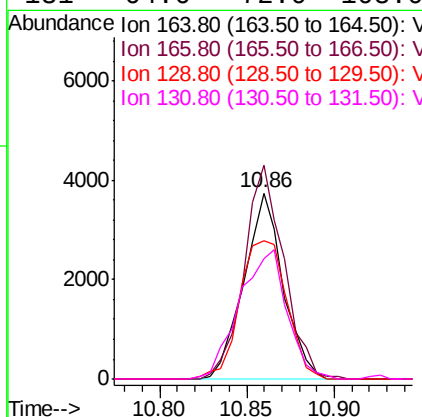
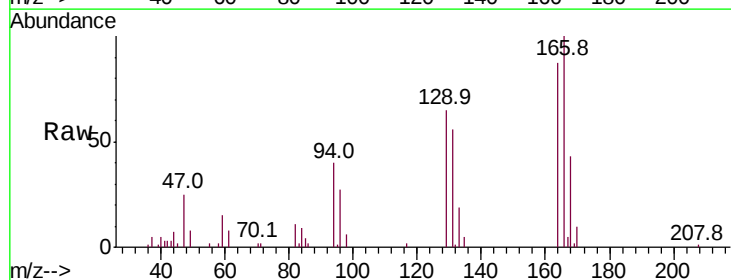
Instrument :
MSVOA_W
ClientSampleId :

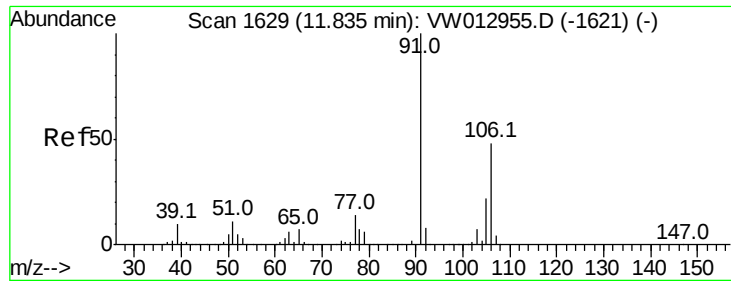
Tot Ion:117 Resp: 416460
Ion Ratio Lower Upper
117 100
82 62.4 46.3 69.5
119 32.9 26.2 39.4



#64
Tetrachloroethene
Concen: 2.342 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW013019.D
Acq: 15 Sep 2019 04:01

Tgt Ion:164 Resp: 5802
Ion Ratio Lower Upper
164 100
166 114.9 103.3 154.9
129 74.4 73.8 110.8
131 64.6 72.0 108.0#

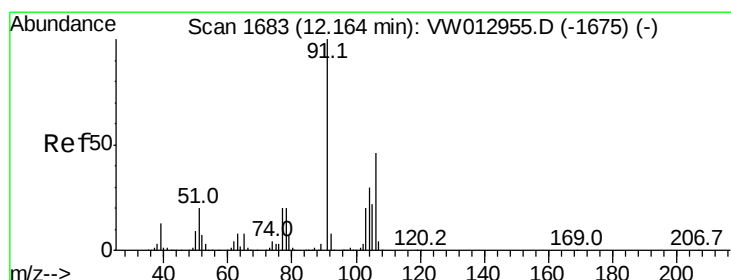
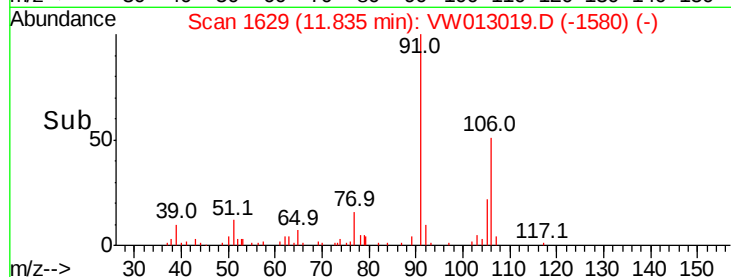
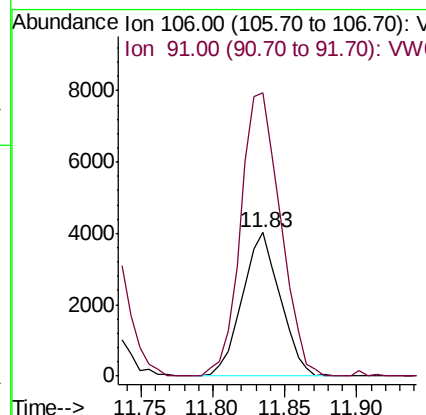
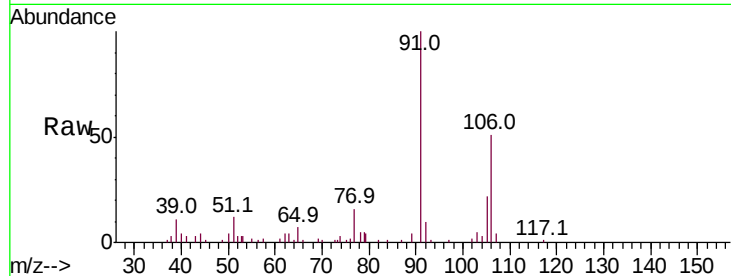




#68
m/p-Xylenes
Concen: 1.474 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VW013019.D
Acq: 15 Sep 2019 04:01

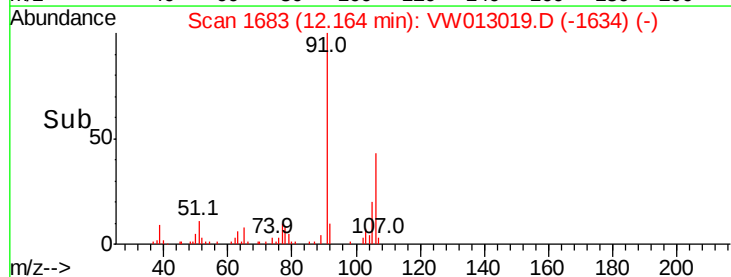
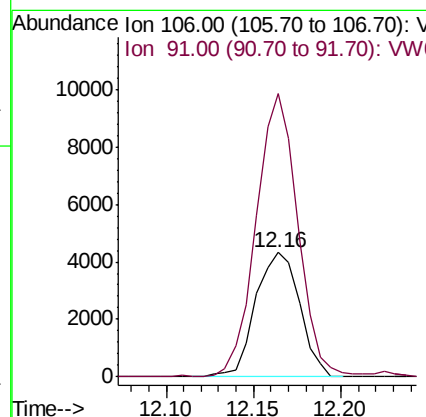
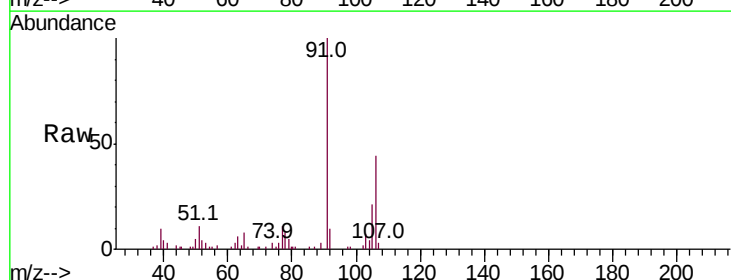
Instrument :
MSVOA_W
ClientSampled :

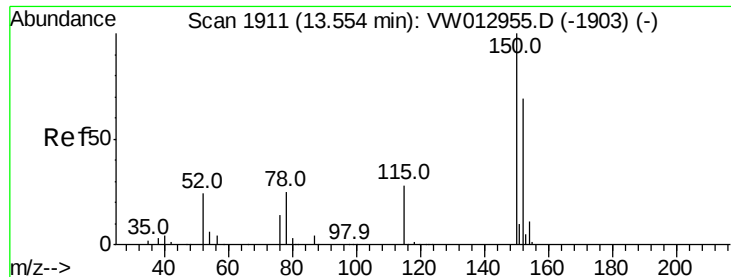
Tot Ion:106 Resp: 7379
Ion Ratio Lower Upper
106 100
91 205.9 165.8 248.8



#69
o-Xylene
Concen: 1.609 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW013019.D
Acq: 15 Sep 2019 04:01

Tgt Ion:106 Resp: 7548
Ion Ratio Lower Upper
106 100
91 216.3 109.7 329.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. -0.00 min

Lab File: VW013019.D

Acq: 15 Sep 2019 04:01

Instrument :

MSVOA_W

ClientSampled :

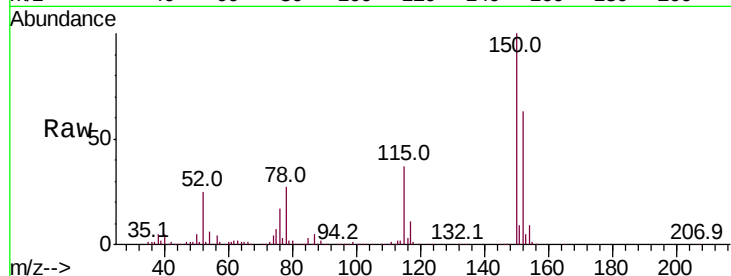
Tot Ion:152 Resp: 155442

Ion Ratio Lower Upper

152 100

115 59.4 28.8 86.4

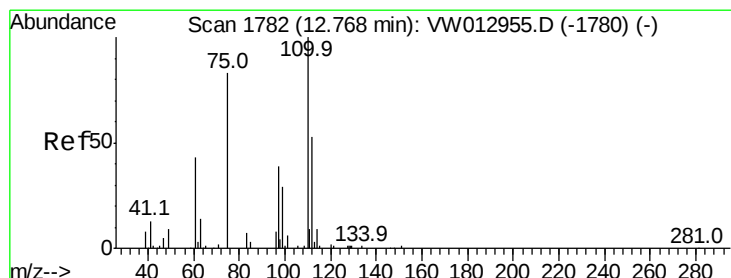
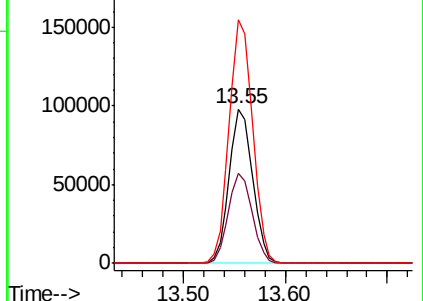
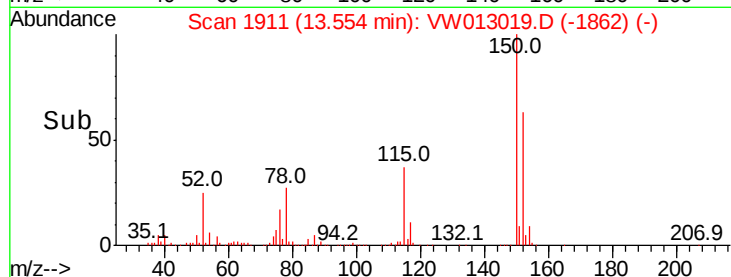
150 158.8 0.0 340.2



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



#76

1,2,3-Trichloropropane

Concen: 69.296 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013019.D

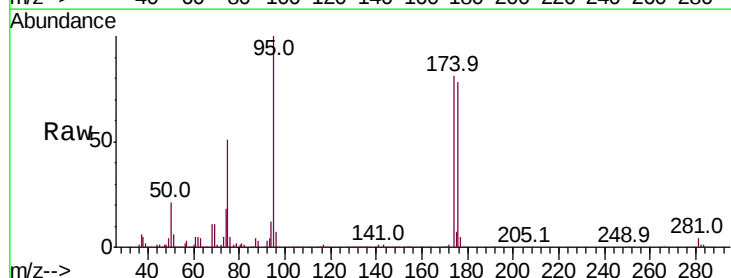
Acq: 15 Sep 2019 04:01

Tgt Ion: 75 Resp: 94350

Ion Ratio Lower Upper

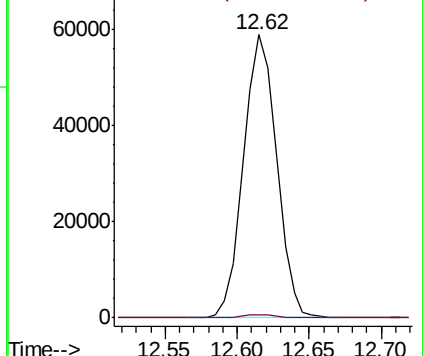
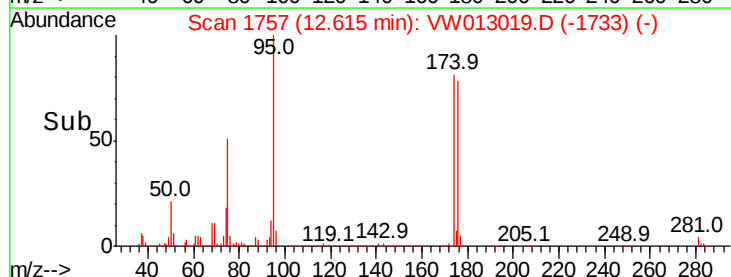
75 100

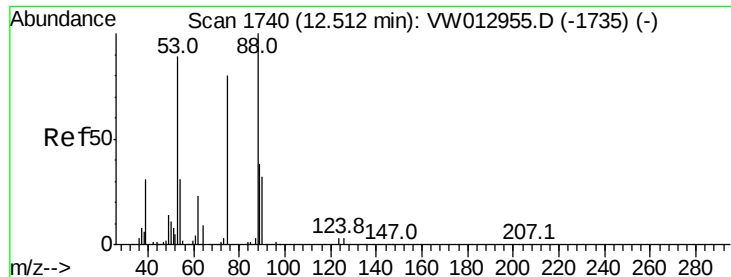
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 157.197 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013019.D

Acq: 15 Sep 2019 04:01

Instrument :

MSVOA_W

ClientSampleId :

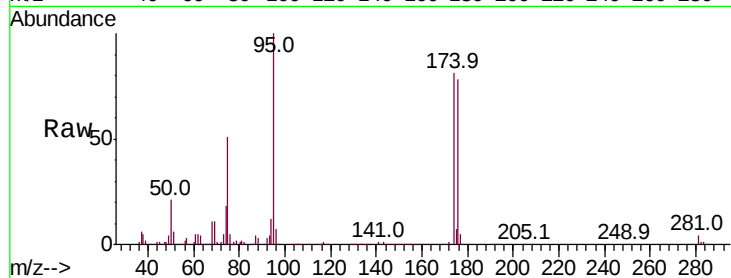
Tot Ion: 75 Resp: 94350

Ion Ratio Lower Upper

75 100

53 0.1 85.6 128.4#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

