

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV011720\
 Data File : VV014332.D
 Acq On : 17 Jan 2020 12:49
 Operator : SY/MD
 Sample : L1169-01
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BF758

Quant Time: Jan 17 22:54:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR010220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jan 17 22:51:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	838646	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	748874	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	358755	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	245419	4.18	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.60%
7) Chloroethane-d5	1.59	69	206844	4.56	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.20%
11) 1,1-Dichloroethene-d2	2.13	63	306876	3.55	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	71.00%
20) 2-Butanone-d5	3.93	46	685331	48.62	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.24%
24) Chloroform-d	4.40	84	470542	4.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.00%
26) 1,2-Dichloroethane-d4	5.08	65	261688	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.20%
32) Benzene-d6	5.10	84	1112627	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.60%
36) 1,2-Dichloropropane-d6	6.12	67	353692	5.11	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.20%
41) Toluene-d8	7.36	98	987031	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.60%
43) trans-1,3-Dichloropropene-	7.66	79	137036	4.47	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.40%
46) 2-Hexanone-d5	8.13	63	614589	47.36	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.72%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	241648	4.99	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.80%
64) 1,2-Dichlorobenzene-d4	11.67	152	321636	4.78	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.60%

Target Compounds

					Ovalue
5) Vinyl chloride	1.33	62	287073	4.891	ug/L 97
8) Chloroethane	1.60	64	4112	0.125	ug/L 89
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	3612	0.096	ug/L # 24
12) 1,1-Dichloroethene	2.14	96	14650	0.391	ug/L # 1
13) Acetone	2.19	43	16850	1.736	ug/L 90
14) Carbon disulfide	2.32	76	10771	0.065	ug/L # 77
17) Methyl tert-butyl Ether	2.81	73	150791	1.087	ug/L 99
18) trans-1,2-Dichloroethene	2.79	96	556712	9.885	ug/L 95
19) 1,1-Dichloroethane	3.23	63	395314	3.581	ug/L 98
22) cis-1,2-Dichloroethene	3.96	96	3733679	60.475	ug/L # 96
25) Chloroform	4.42	83	62109	0.588	ug/L 100
33) Benzene	5.15	78	324378	1.406	ug/L 100
34) Trichloroethene	5.97	95	6325	0.107	ug/L 88
37) 1,2-Dichloropropane	6.12	63	37730	0.648	ug/L # 87
42) Toluene	7.43	91	34432	0.141	ug/L 93
44) trans-1,3-Dichloropropene	7.66	75	7155	0.099	ug/L # 76
48) 2-Hexanone	8.13	43	71768	2.828	ug/L # 76

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QLast Update : Fri Jan 17 22:51:36 2020
Response via : Initial Calibration

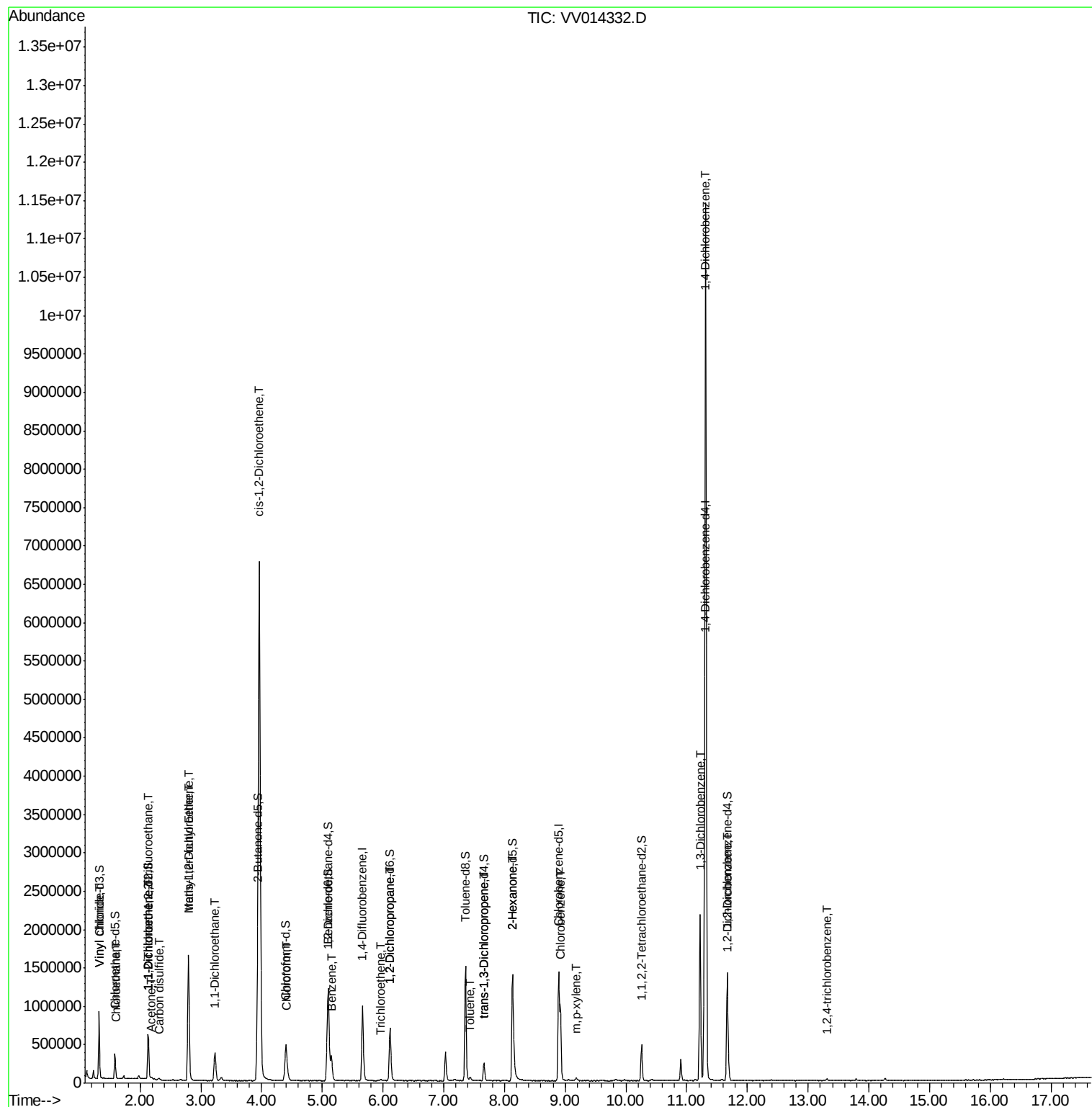
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	8.92	112	489005	3.266	ug/L	97
53) m,p-xylene	9.18	106	10529	0.105	ug/L	97
62) 1,3-Dichlorobenzene	11.22	146	839966	7.489	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	4238776	38.007	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	120114	1.186	ug/L	97
68) 1,2,4-trichlorobenzene	13.31	180	7830	0.109	ug/L	94

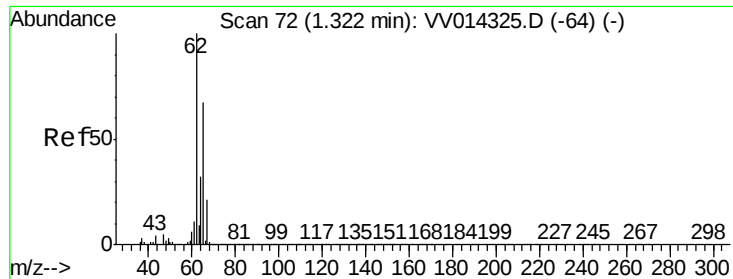
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 4.891 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VV014332.D

Acq: 17 Jan 2020 12:49

Instrument :

MSVOA_V

ClientSampleId :

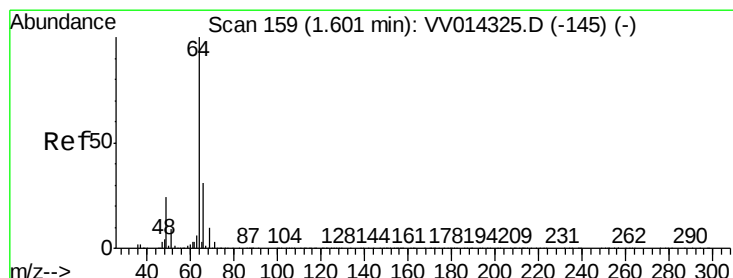
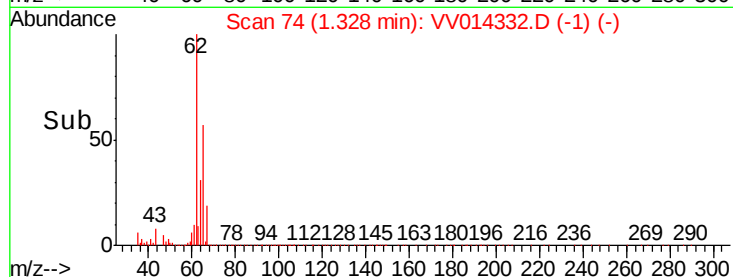
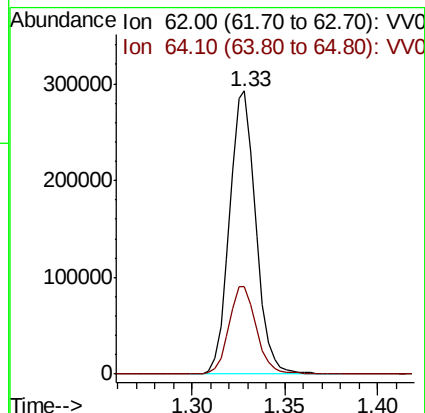
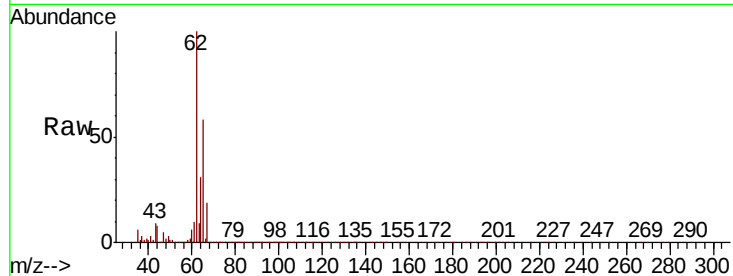
BF758

Tot Ion: 62 Resp: 287073

Ion Ratio Lower Upper

62 100

64 31.1 23.0 42.6



#8

Chloroethane

Concen: 0.125 ug/L

RT: 1.60 min Scan# 160

Delta R.T. 0.00 min

Lab File: VV014332.D

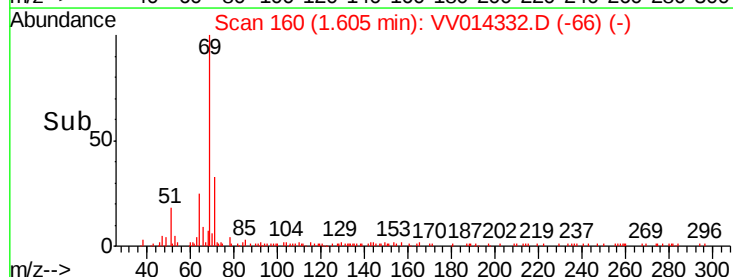
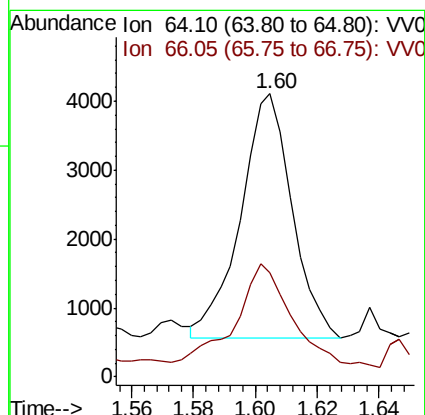
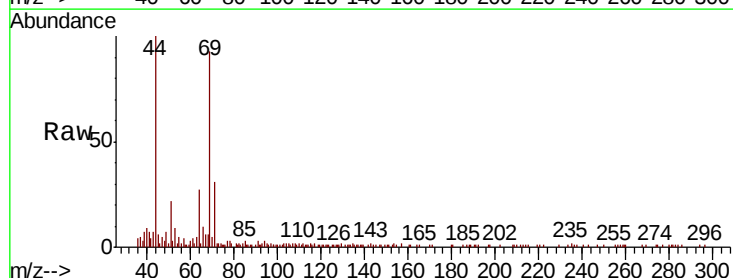
Acq: 17 Jan 2020 12:49

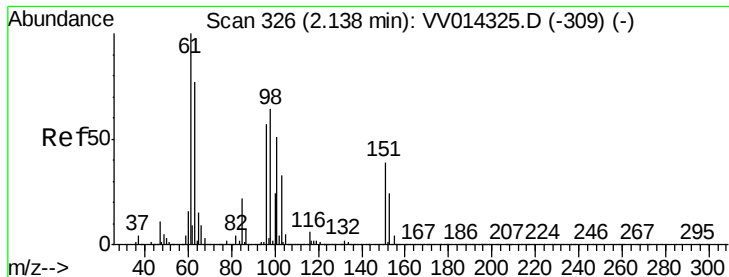
Tgt Ion: 64 Resp: 4112

Ion Ratio Lower Upper

64 100

66 37.0 21.8 40.6





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.096 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VV014332.D

Acq: 17 Jan 2020 12:49

Instrument :

MSVOA_V

ClientSampled :

BF758

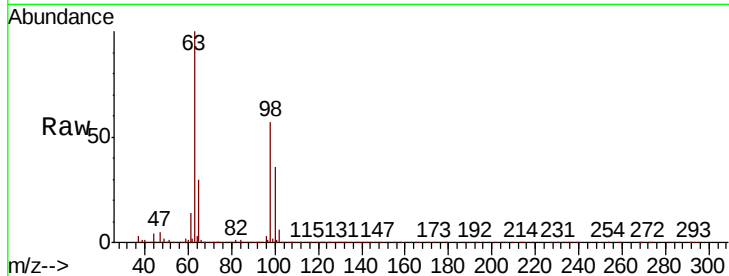
Tot Ion:101 Resp: 3612

Ion Ratio Lower Upper

101 100

85 9.9 34.9 52.3#

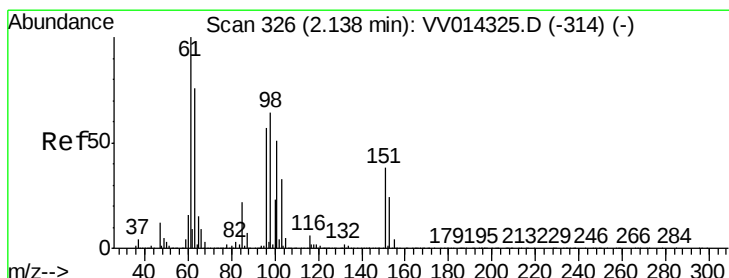
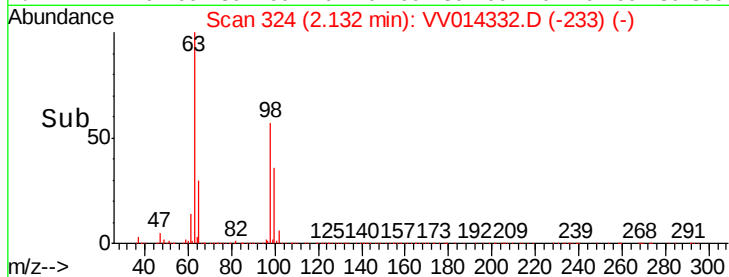
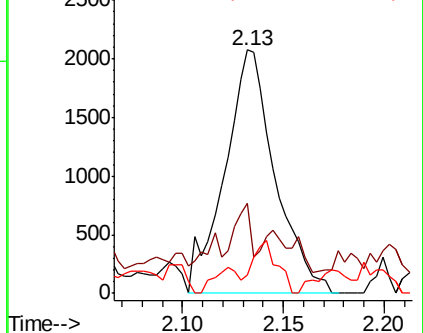
151 0.0 62.5 93.7#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.391 ug/L

RT: 2.14 min Scan# 328

Delta R.T. 0.01 min

Lab File: VV014332.D

Acq: 17 Jan 2020 12:49

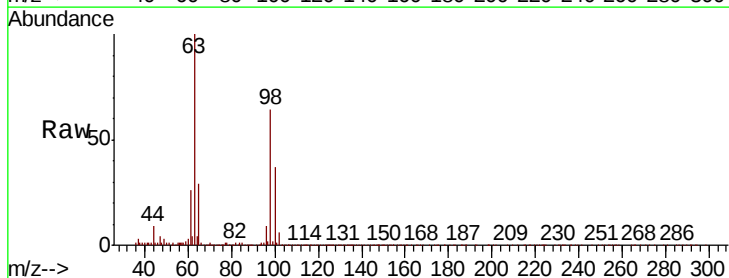
Tgt Ion: 96 Resp: 14650

Ion Ratio Lower Upper

96 100

61 298.9 121.5 225.7#

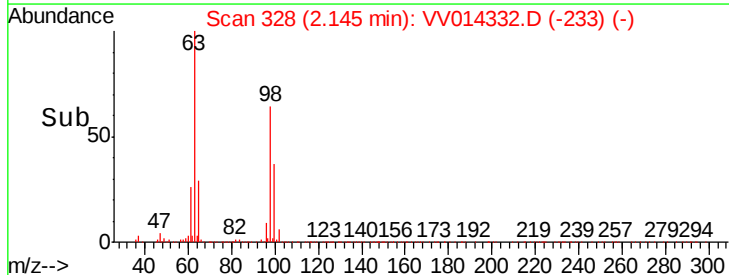
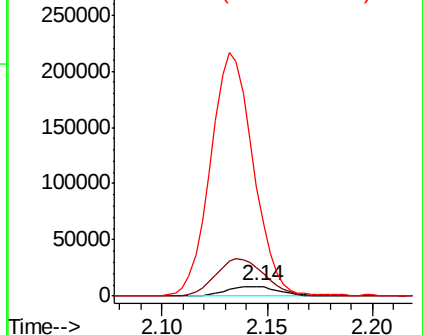
63 1133.9 90.3 167.7#

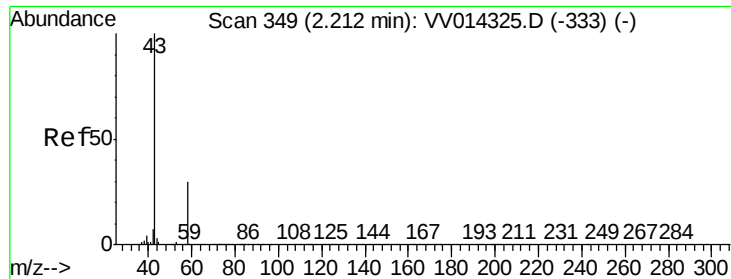


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 1.736 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.03 min

Lab File: VV014332.D

Acq: 17 Jan 2020 12:49

Instrument :

MSVOA_V

ClientSampled :

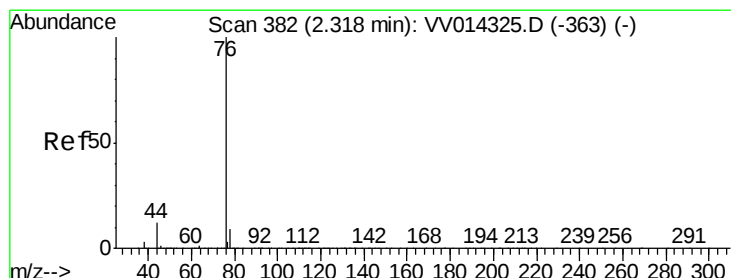
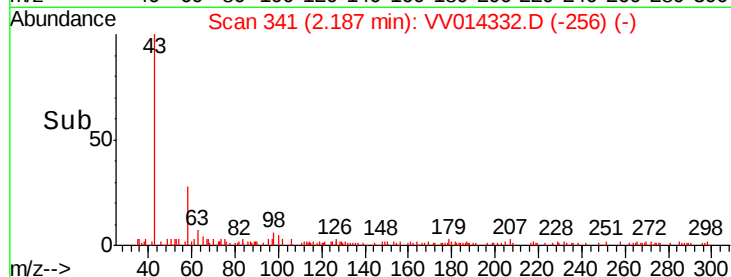
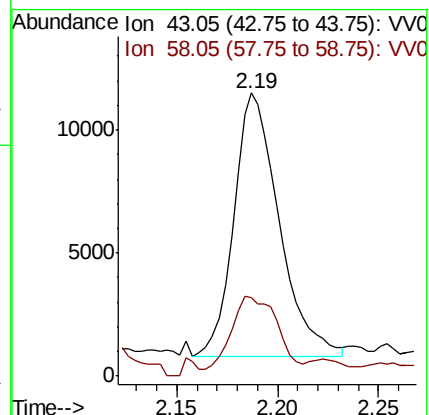
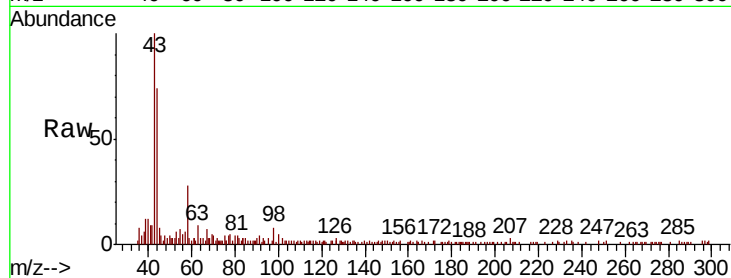
BF758

Tot Ion: 43 Resp: 16850

Ion Ratio Lower Upper

43 100

58 27.5 0.0 66.0



#14

Carbon disulfide

Concen: 0.065 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VV014332.D

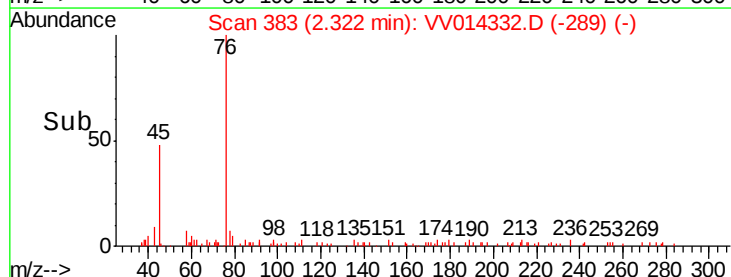
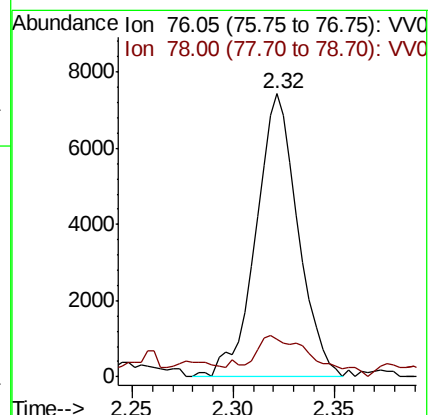
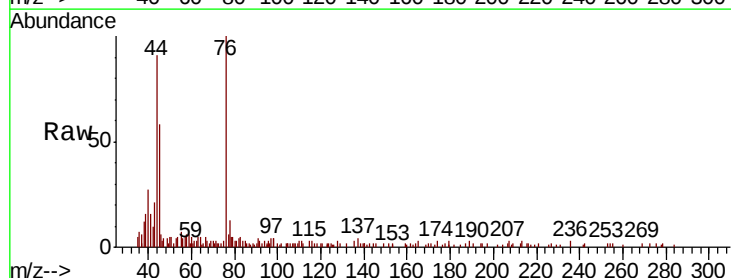
Acq: 17 Jan 2020 12:49

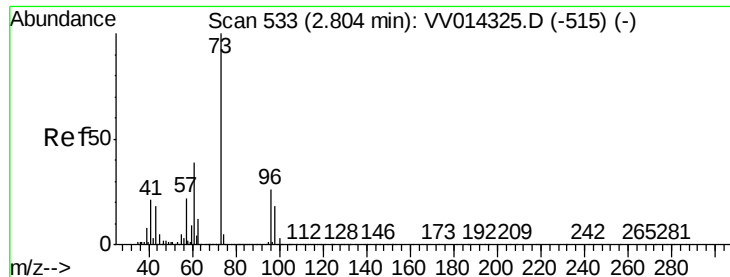
Tgt Ion: 76 Resp: 10771

Ion Ratio Lower Upper

76 100

78 17.8 7.5 11.3#

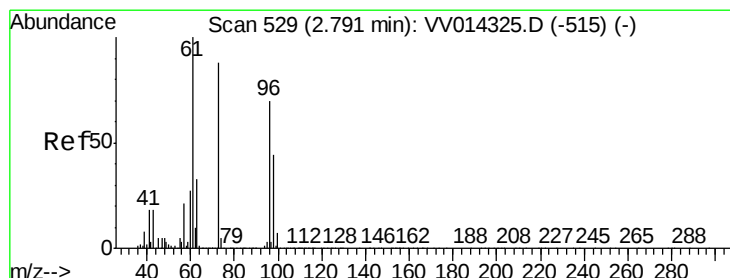
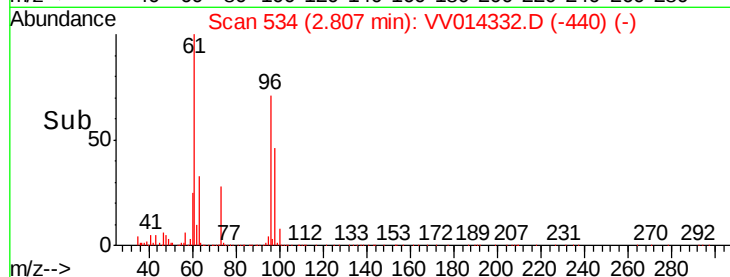
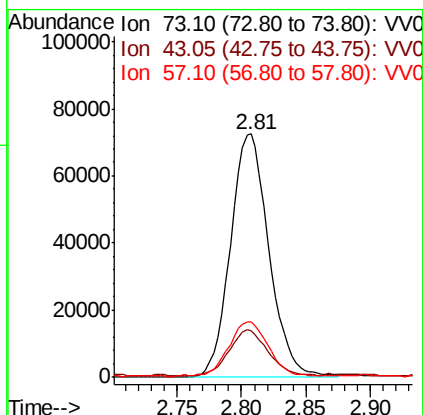
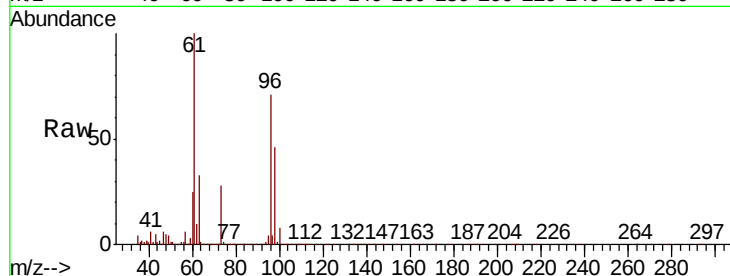




#17
Methvl tert-butvl Ether
Concen: 1.087 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV014332.D
Acq: 17 Jan 2020 12:49

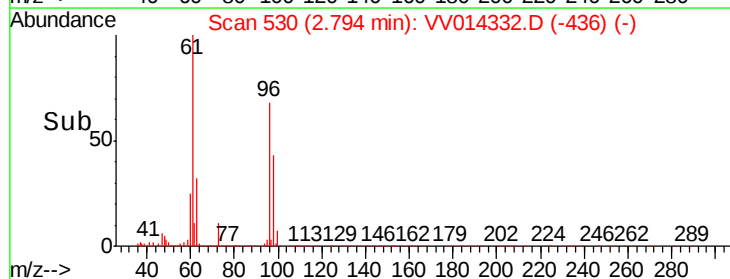
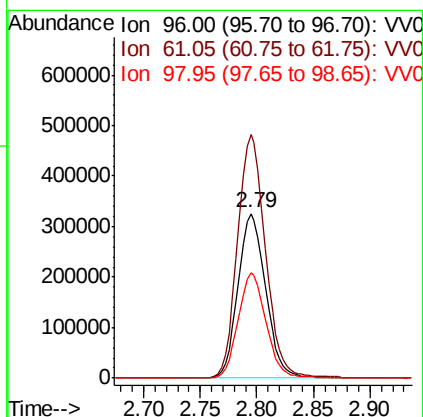
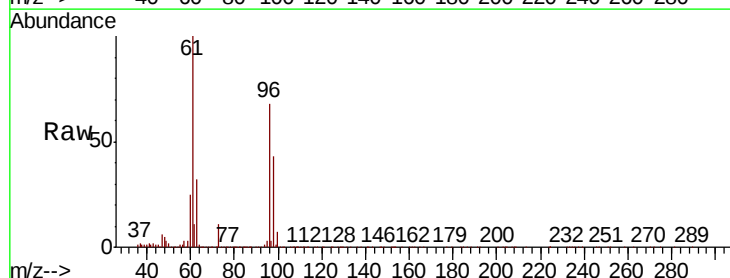
Instrument :
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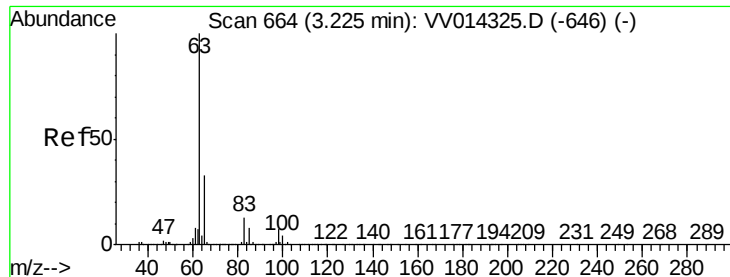
Tot Ion: 73 Resp: 150791
Ion Ratio Lower Upper
73 100
43 18.7 14.7 22.1
57 22.9 17.9 26.9



#18
trans-1,2-Dichloroethene
Concen: 9.885 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV014332.D
Acq: 17 Jan 2020 12:49

Tgt Ion: 96 Resp: 556712
Ion Ratio Lower Upper
96 100
61 148.1 99.2 184.2
98 64.1 43.1 80.1

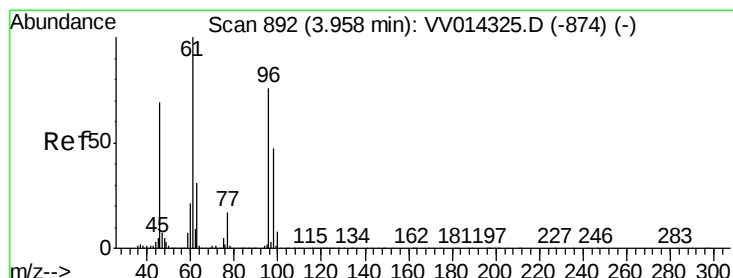
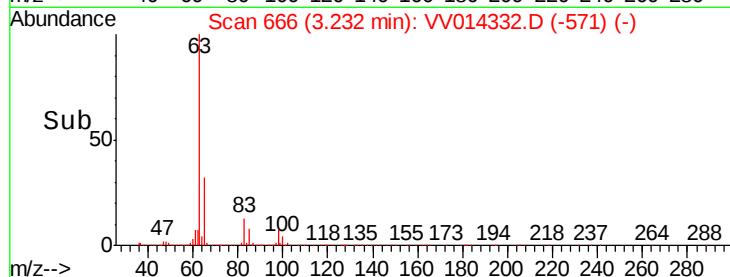
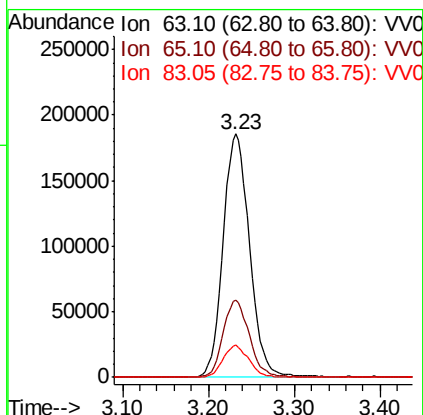
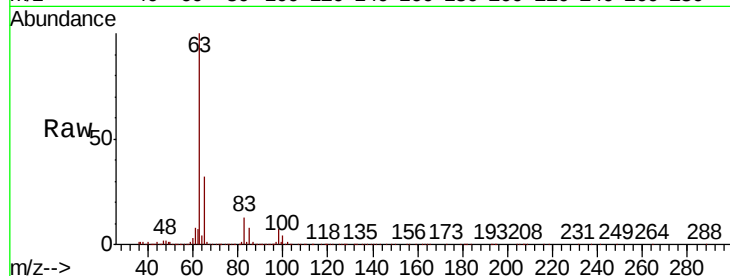




#19
 1,1-Dichloroethane
 Concen: 3.581 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.01 min
 Lab File: VV014332.D
 Acq: 17 Jan 2020 12:49

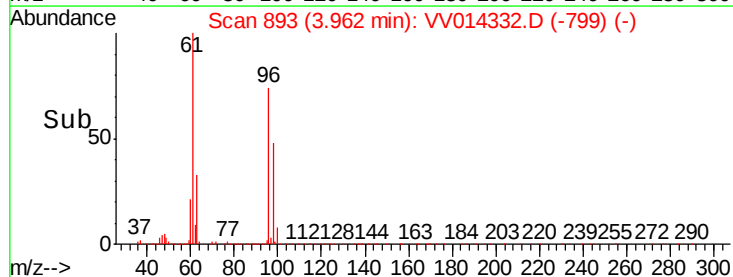
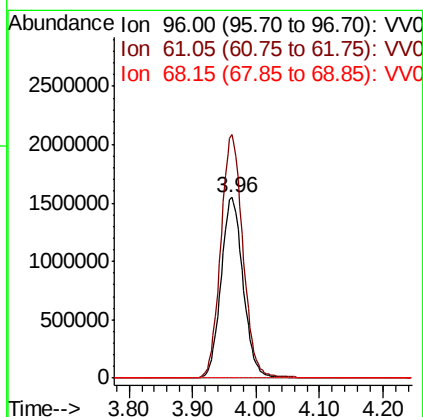
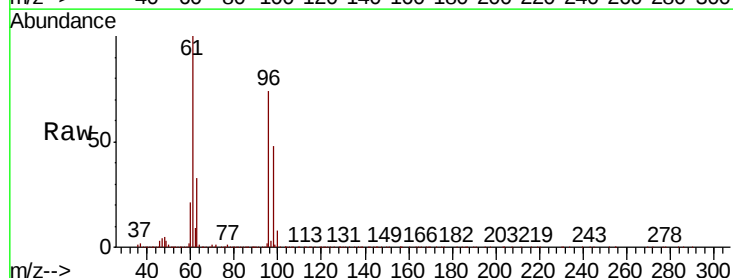
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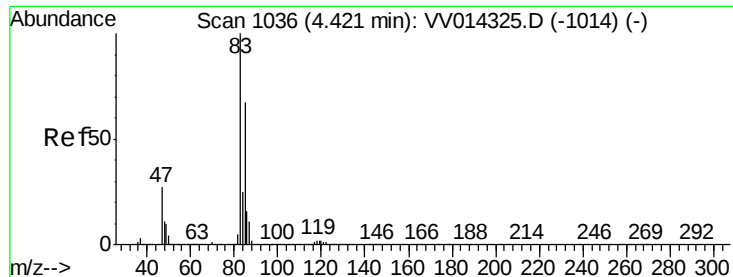
Tot Ion	Ratio	Lower	Upper
63	100		
65	31.9	22.7	42.3
83	13.1	10.0	18.6



#22
 cis-1,2-Dichloroethene
 Concen: 60.475 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV014332.D
 Acq: 17 Jan 2020 12:49

Tgt Ion	Ratio	Lower	Upper
96	100		
61	134.6	90.6	168.3
68	0.0	0.3	0.7#





#25

Chloroform

Concen: 0.588 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VV014332.D

Acq: 17 Jan 2020 12:49

Instrument :

MSVOA_V

ClientSampled :

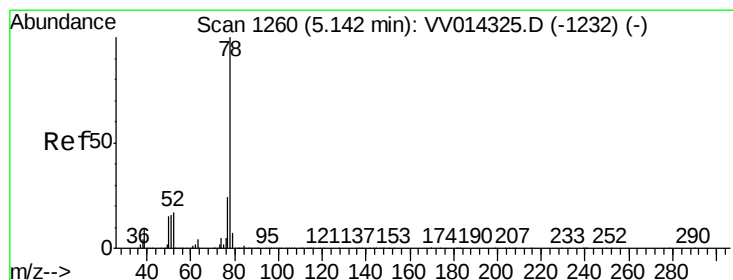
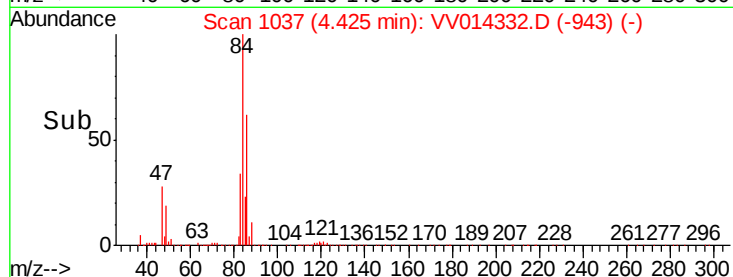
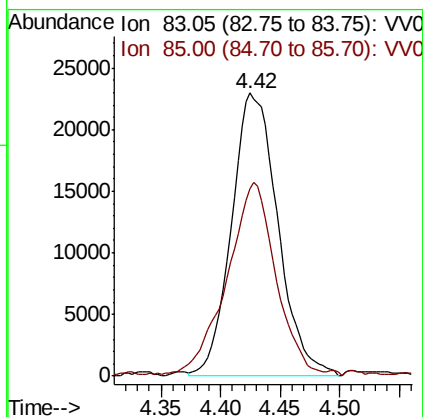
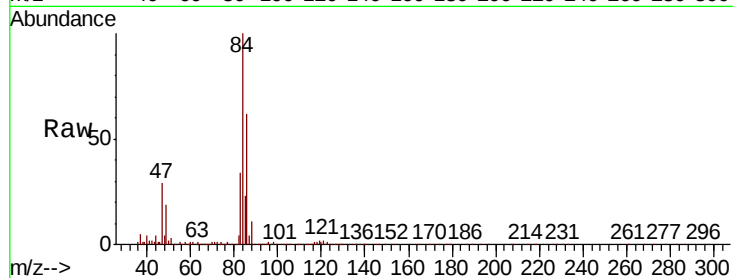
BF758

Tot Ion: 83 Resp: 62109

Ion Ratio Lower Upper

83 100

85 66.2 46.2 85.8



#33

Benzene

Concen: 1.406 ug/L

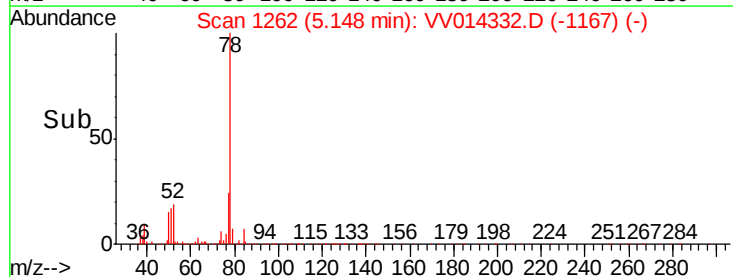
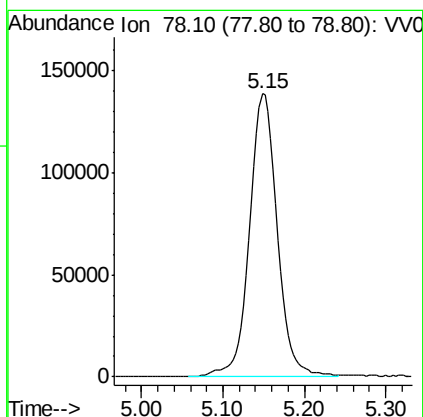
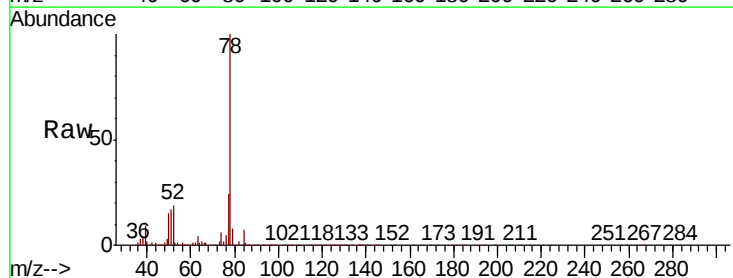
RT: 5.15 min Scan# 1262

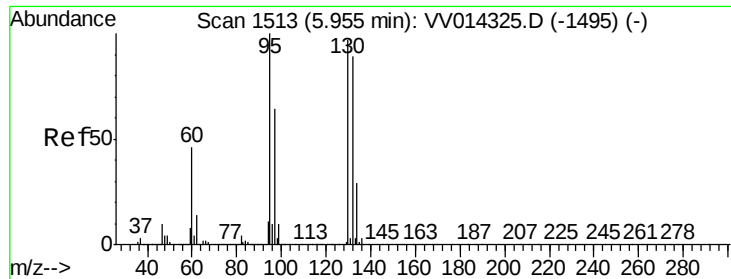
Delta R.T. 0.01 min

Lab File: VV014332.D

Acq: 17 Jan 2020 12:49

Tgt Ion: 78 Resp: 324378





#34

Trichloroethene

Concen: 0.107 ug/L

RT: 5.97 min Scan# 1517

Delta R.T. 0.01 min

Lab File: VV014332.D

Acq: 17 Jan 2020 12:49

Instrument :

MSVOA_V

ClientSampleId :

BF758

Tot Ion: 95 Resp: 6325

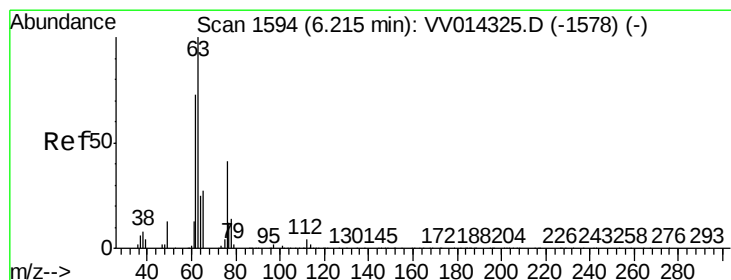
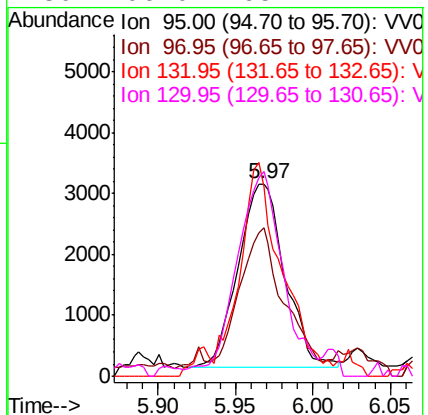
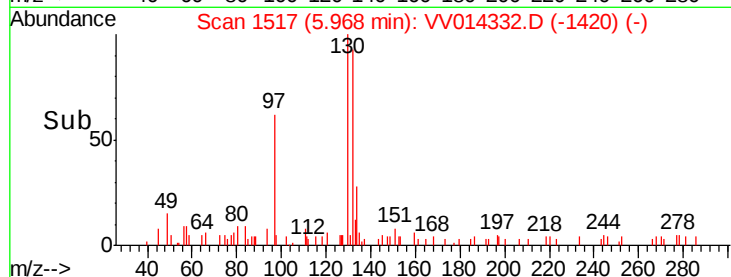
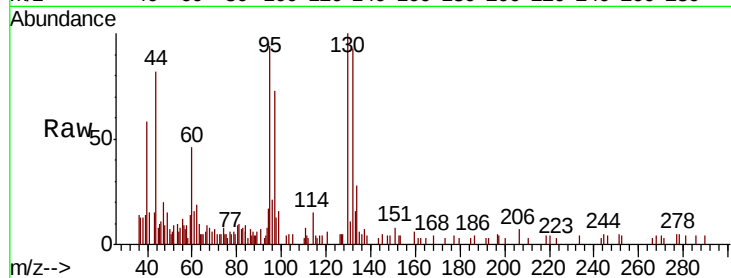
Ion Ratio Lower Upper

95 100

97 76.9 43.8 81.3

132 98.1 63.4 117.8

130 106.0 65.7 122.1



#37

1,2-Dichloropropane

Concen: 0.648 ug/L

RT: 6.12 min Scan# 1563

Delta R.T. -0.10 min

Lab File: VV014332.D

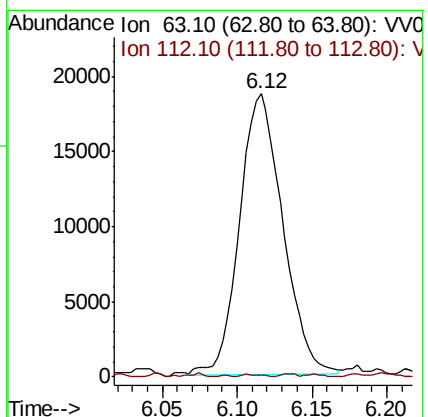
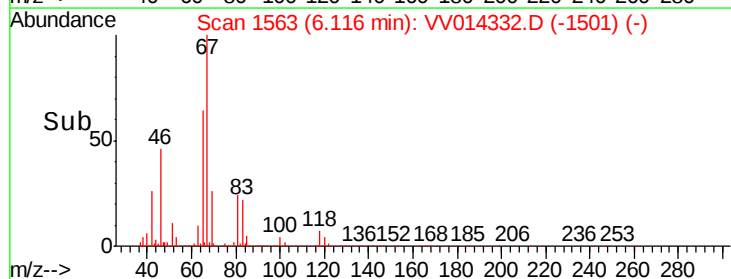
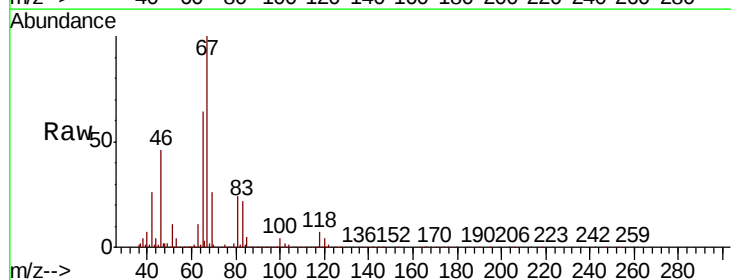
Acq: 17 Jan 2020 12:49

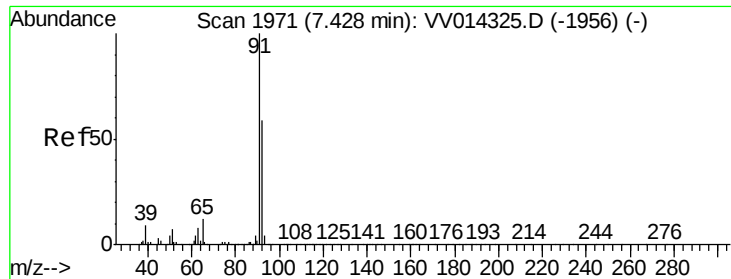
Tgt Ion: 63 Resp: 37730

Ion Ratio Lower Upper

63 100

112 0.4 3.7 5.5#





#42

Toluene

Concen: 0.141 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV014332.D

Acq: 17 Jan 2020 12:49

Instrument :

MSVOA_V

ClientSampleId :

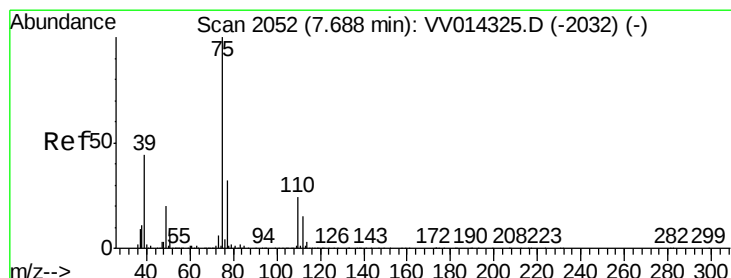
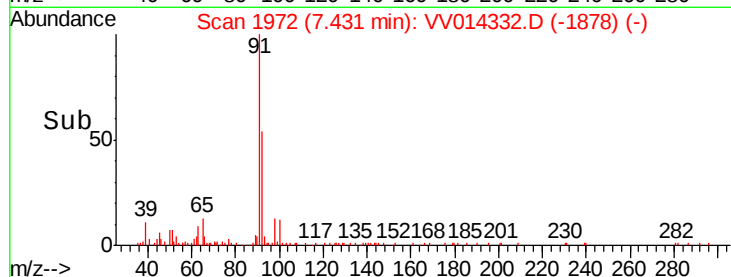
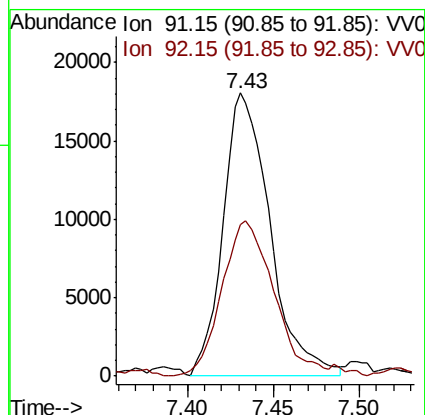
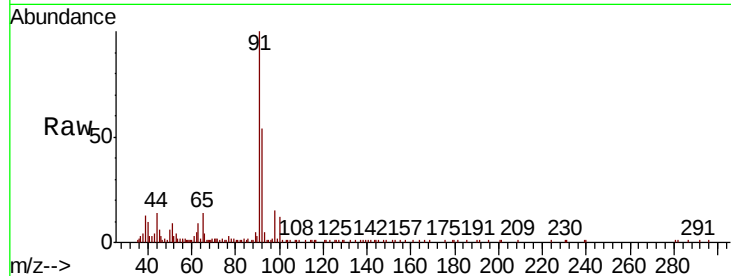
BF758

Tot Ion: 91 Resp: 34432

Ion Ratio Lower Upper

91 100

92 53.6 41.2 76.6



#44

trans-1,3-Dichloropropene

Concen: 0.099 ug/L

RT: 7.66 min Scan# 2043

Delta R.T. -0.03 min

Lab File: VV014332.D

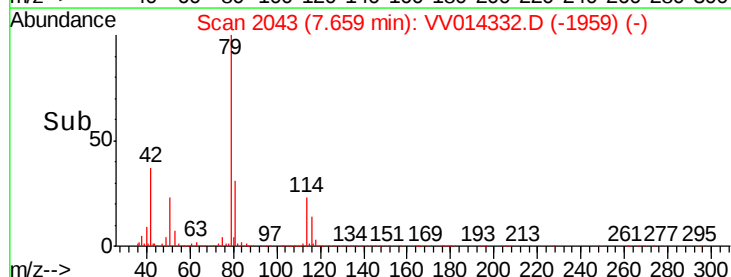
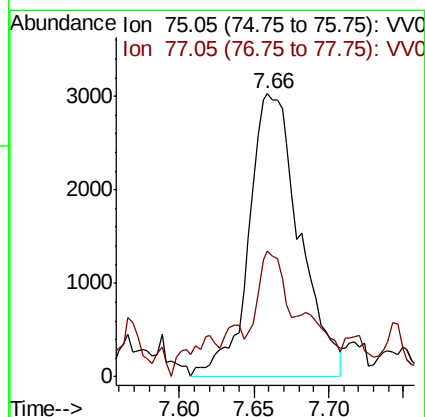
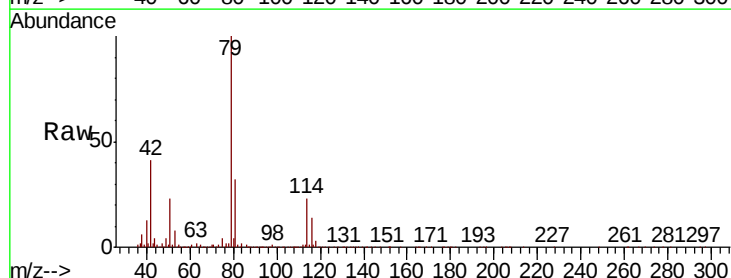
Acq: 17 Jan 2020 12:49

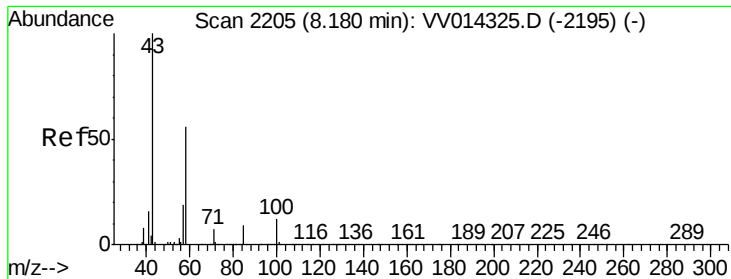
Tgt Ion: 75 Resp: 7155

Ion Ratio Lower Upper

75 100

77 44.7 22.0 41.0#

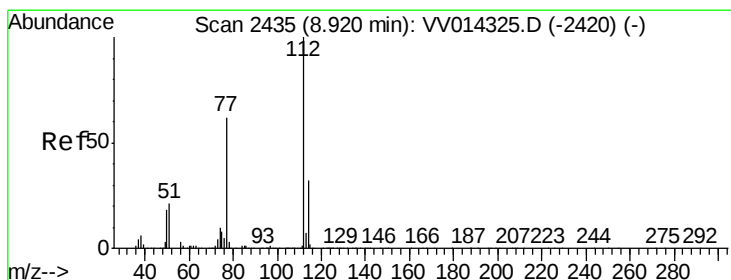
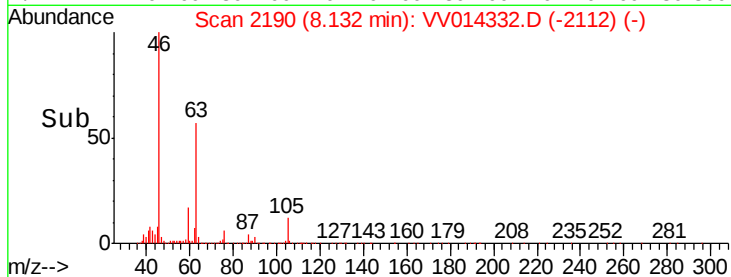
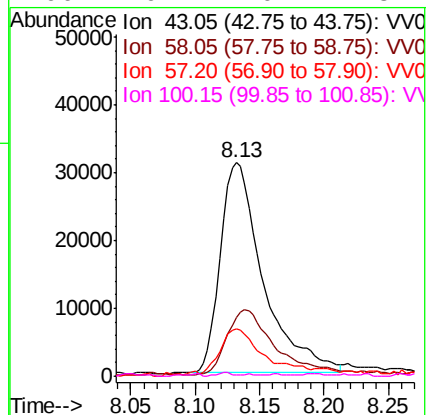
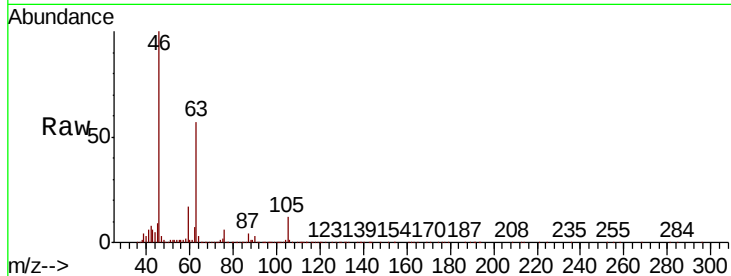




#48
2-Hexanone
Concen: 2.828 ug/L
RT: 8.13 min Scan# 2190
Delta R.T. -0.05 min
Lab File: VV014332.D
Acq: 17 Jan 2020 12:49

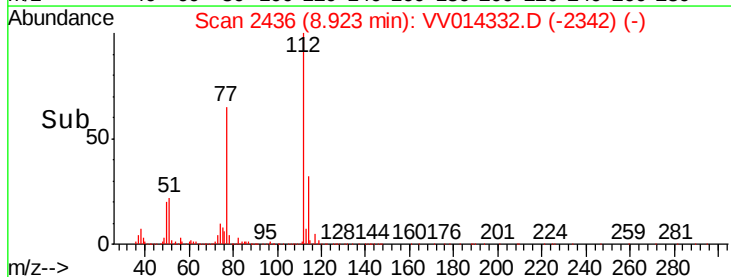
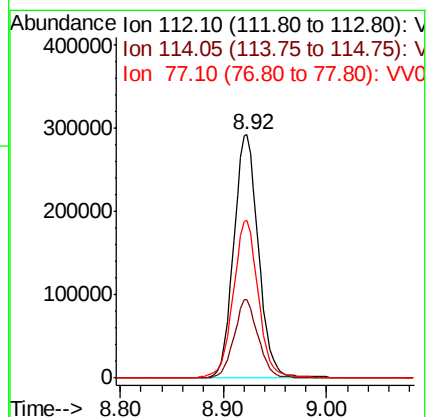
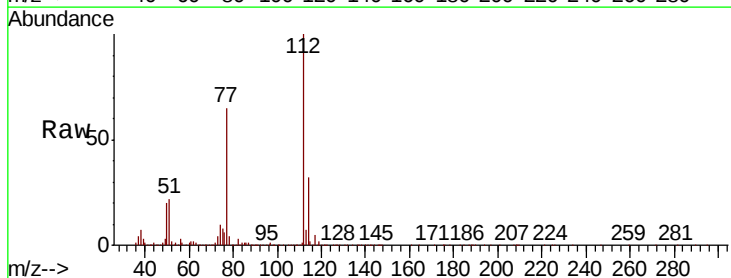
Instrument :
MSVOA_V
ClientSampleID :
BF758

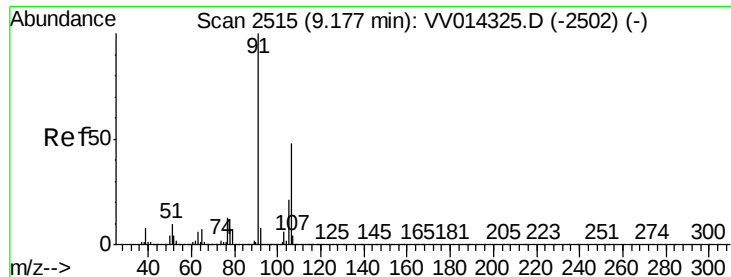
Tot Ion:	43	Resp:	71768
Ion	Ratio	Lower	Upper
43	100		
58	35.4	45.4	68.0#
57	21.2	15.8	23.8
100	0.2	10.2	15.4#



#51
Chlorobenzene
Concen: 3.266 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV014332.D
Acq: 17 Jan 2020 12:49

Tgt Ion:	112	Resp:	489005
Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.5	41.7
77	64.9	49.3	73.9





#53

m,p-xylene

Concen: 0.105 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV014332.D

Acq: 17 Jan 2020 12:49

Instrument :

MSVOA_V

ClientSampled :

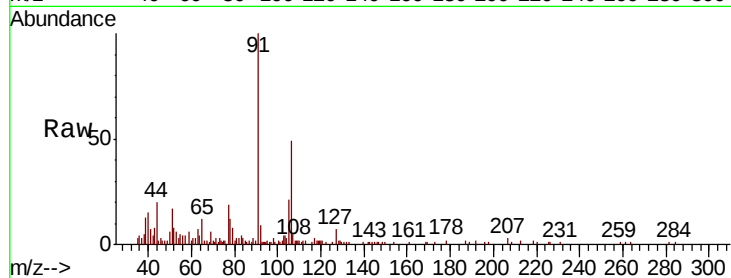
BF758

Tot Ion:106 Resp: 10529

Ion Ratio Lower Upper

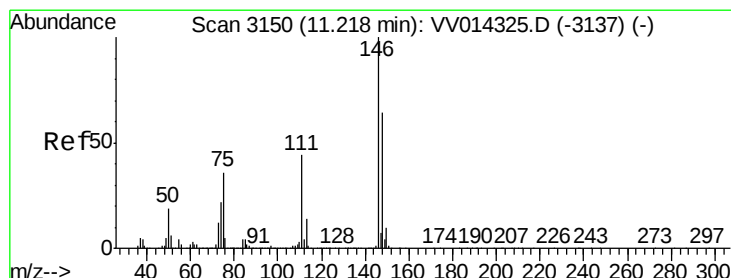
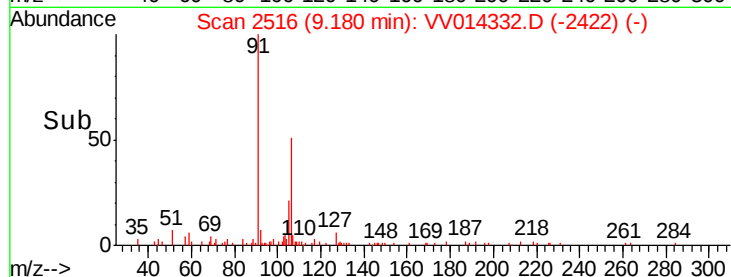
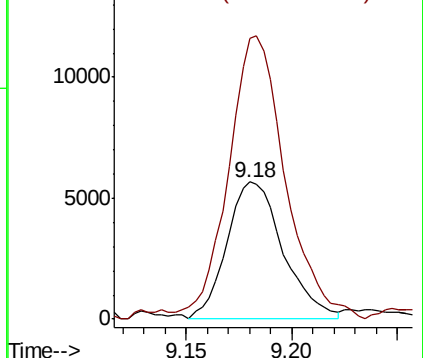
106 100

91 204.8 146.8 272.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#62

1,3-Dichlorobenzene

Concen: 7.489 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV014332.D

Acq: 17 Jan 2020 12:49

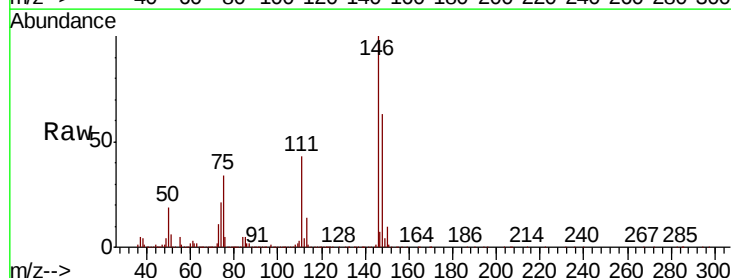
Tgt Ion:146 Resp: 839966

Ion Ratio Lower Upper

146 100

111 43.2 30.7 57.1

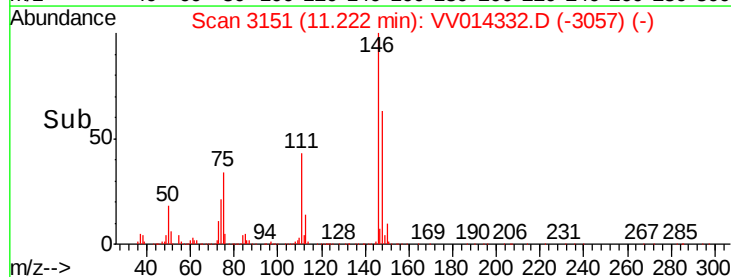
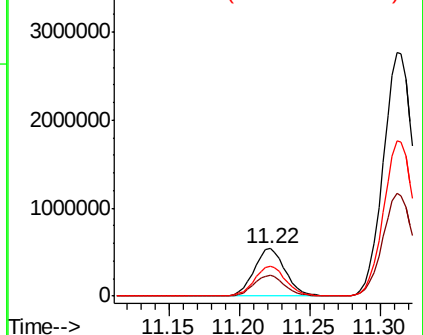
148 62.9 44.4 82.5

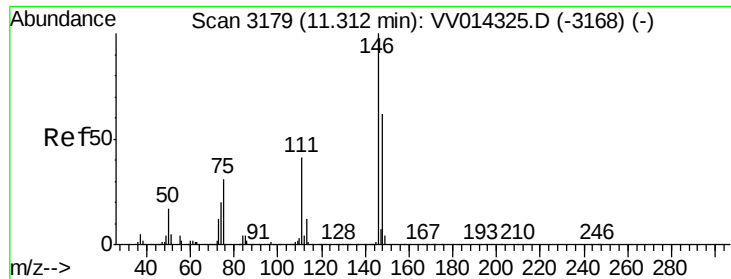


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

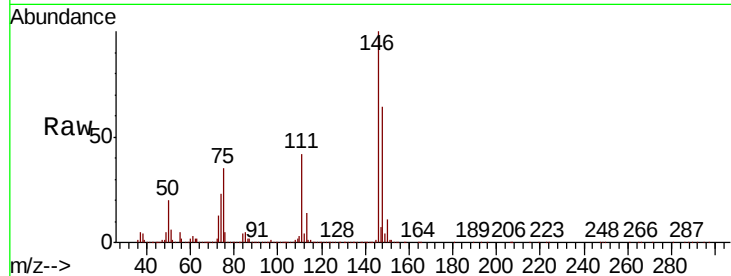




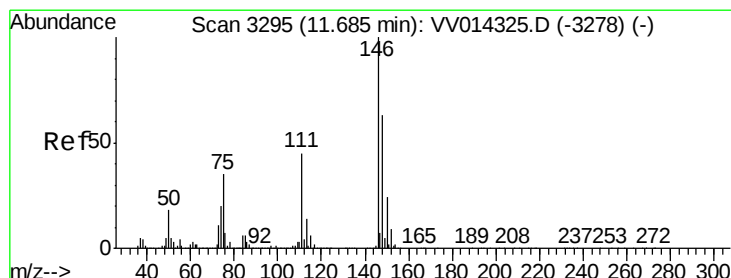
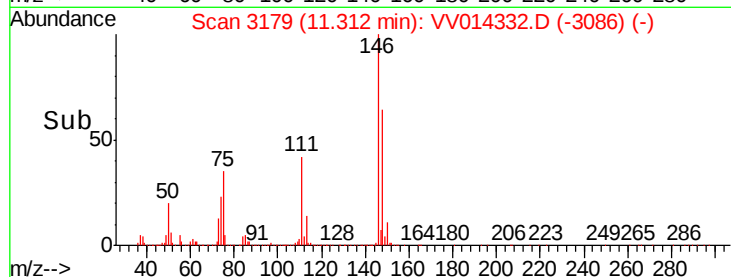
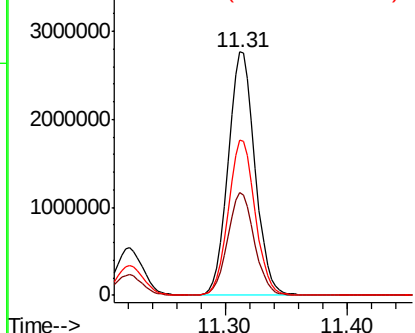
#63
1,4-Dichlorobenzene
Concen: 38.007 ug/L
RT: 11.31 min Scan# 3179
Delta R.T. 0.00 min
Lab File: VV014332.D
Acq: 17 Jan 2020 12:49

Instrument :
MSVOA_V
ClientSampleId :
BF758

Tot Ion:146 Resp: 4238776
Ion Ratio Lower Upper
146 100
111 42.3 28.8 53.4
148 63.7 44.5 82.7

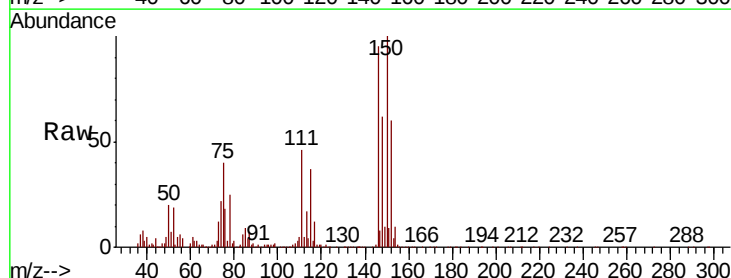


Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

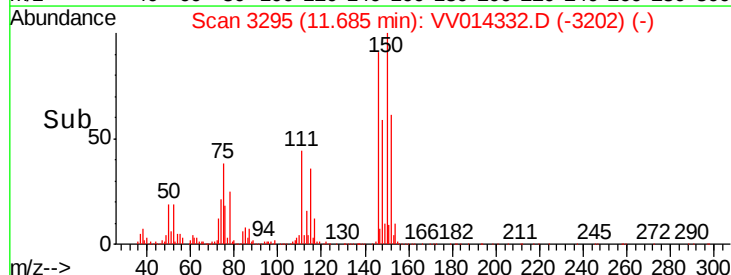
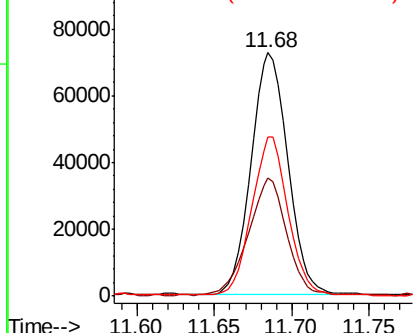


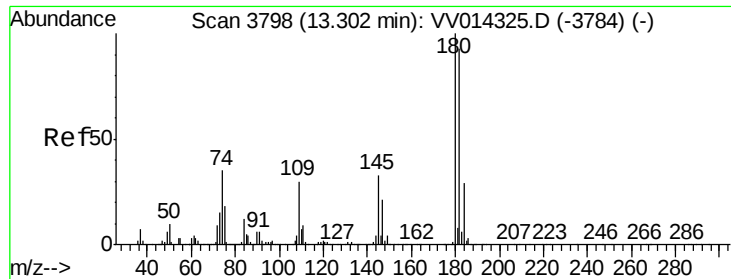
#65
1,2-Dichlorobenzene
Concen: 1.186 ug/L
RT: 11.68 min Scan# 3295
Delta R.T. 0.00 min
Lab File: VV014332.D
Acq: 17 Jan 2020 12:49

Tgt Ion:146 Resp: 120114
Ion Ratio Lower Upper
146 100
111 48.4 36.4 54.6
148 65.5 51.3 76.9



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#68
 1,2,4-trichlorobenzene
 Concen: 0.109 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.01 min
 Lab File: VV014332.D
 Acq: 17 Jan 2020 12:49

Instrument :
 MSVOA_V
 ClientSampleId :
 BF758

Tot Ion	Ratio	Lower	Upper
180	100		
182	86.5	75.2	112.8
145	31.9	26.2	39.4

