

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121419\
 Data File : VV014057.D
 Acq On : 13 Dec 2019 17:23
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Dec 14 05:26:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM080619W.M
 Quant Title : VOC Analysis
 QLast Update : Thu Dec 05 16:45:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	335645	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	315591	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	178039	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	99336	54.14	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	108.28%
7) Chloroethane-d5	1.55	69	95598	73.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	146.82%#
11) 1,1-Dichloroethene-d2	2.12	63	198770	62.49	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	124.98%
21) 2-Butanone-d5	3.92	46	157508	117.82	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	117.82%
24) Chloroform-d	4.39	84	224883	48.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.70%
26) 1,2-Dichloroethane-d4	5.07	65	138494	46.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.66%
32) Benzene-d6	5.09	84	436577	48.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.14%
36) 1,2-Dichloropropane-d6	6.11	67	139339	52.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.92%
41) Toluene-d8	7.35	98	390010	44.54	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.08%
43) trans-1,3-Dichloropropene-	7.66	79	58998	39.44	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	78.88%
47) 2-Hexanone-d5	8.13	63	96163	88.02	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	88.02%
56) 1,1,2,2-Tetrachloroethane-	10.25	84	177787	47.95	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.90%
66) 1,2-Dichlorobenzene-d4	11.67	152	179321	42.83	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.66%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	151817	64.039	ug/L	99
3) Chloromethane	1.25	50	163989	97.418	ug/L	97
5) Vinyl chloride	1.32	62	151528	93.258	ug/L	99
6) Bromomethane	1.51	94	65828	69.784	ug/L	99
8) Chloroethane	1.57	64	88606	104.125	ug/L	99
9) Trichlorofluoromethane	1.75	101	207157	78.414	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	119287	92.110	ug/L	97
12) 1,1-Dichloroethene	2.13	96	111198	91.186	ug/L	82
13) Acetone	2.18	43	171826	188.513	ug/L	96
14) Carbon disulfide	2.31	76	296874	72.040	ug/L	100
15) Methyl Acetate	2.45	43	133165	83.499	ug/L	94
16) Methylene chloride	2.53	84	132692	71.715	ug/L	93
17) trans-1,2-Dichloroethene	2.78	96	116422	67.611	ug/L	96
18) Methyl tert-butyl Ether	2.80	73	361105	61.030	ug/L	96
19) 1,1-Dichloroethane	3.22	63	228611	72.802	ug/L	99
20) cis-1,2-Dichloroethene	3.95	96	132548	65.353	ug/L	91
22) 2-Butanone	4.00	43	195428	166.368	ug/L	91

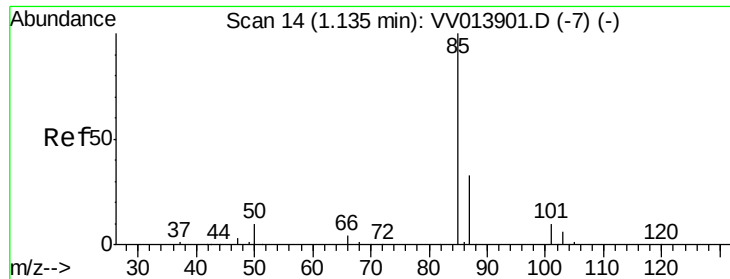
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121419\
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 Quant Title : VOC Analysis
 QLast Update : Thu Dec 05 16:45:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	71216	63.855	ug/L #	87
25) Chloroform	4.42	83	233131	65.496	ug/L	99
27) 1,2-Dichloroethane	5.17	62	175358	63.387	ug/L	97
29) Cyclohexane	4.72	56	188143	71.295	ug/L	93
30) 1,1,1-Trichloroethane	4.65	97	198459	59.199	ug/L	98
31) Carbon tetrachloride	4.87	117	176767	56.837	ug/L	99
33) Benzene	5.14	78	505585	69.595	ug/L	100
34) Trichloroethene	5.95	95	134222	66.472	ug/L	98
35) Methylcyclohexane	6.17	83	198495	66.046	ug/L	93
37) 1,2-Dichloropropane	6.21	63	129781	73.242	ug/L	100
38) Bromodichloromethane	6.55	83	171678	61.587	ug/L	99
39) cis-1,3-Dichloropropene	7.06	75	190353	60.931	ug/L	99
40) 4-Methyl-2-pentanone	7.26	43	330080	144.735	ug/L	96
42) Toluene	7.42	91	518470	64.229	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	167150	56.680	ug/L	99
45) 1,1,2-Trichloroethane	7.87	97	122024	63.884	ug/L	97
46) Tetrachloroethene	8.01	164	113549	60.355	ug/L	95
48) 2-Hexanone	8.18	43	268879	156.383	ug/L	96
49) Dibromochloromethane	8.28	129	139932	56.455	ug/L	99
50) 1,2-Dibromoethane	8.39	107	127491	60.353	ug/L	98
51) Chlorobenzene	8.92	112	335114	61.575	ug/L	99
52) Ethylbenzene	9.05	91	554509	61.222	ug/L	99
53) m,p-Xylene	9.18	106	219511	62.824	ug/L	91
54) o-Xylene	9.58	106	208118	60.025	ug/L	98
55) Styrene	9.60	104	372244	63.733	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.28	83	178257	60.686	ug/L	100
59) Bromoform	9.77	173	108546	51.976	ug/L	98
60) Isopropylbenzene	9.97	105	555997	57.047	ug/L	99
61) 1,2,3-Trichloropropane	10.31	75	157550	65.168	ug/L	98
62) 1,3,5-Trimethylbenzene	10.58	105	463185	54.973	ug/L	97
63) 1,2,4-Trimethylbenzene	10.95	105	469097	56.409	ug/L	99
64) 1,3-Dichlorobenzene	11.22	146	291489	59.274	ug/L	99
65) 1,4-Dichlorobenzene	11.31	146	294226	59.192	ug/L	99
67) 1,2-Dichlorobenzene	11.68	146	305817	60.950	ug/L	97
68) 1,2-Dibromo-3-chloropropan	12.47	75	37420	46.965	ug/L	96
69) 1,3,5-Trichlorobenzene	12.69	180	237011	59.454	ug/L	99
70) 1,2,4-trichlorobenzene	13.31	180	186802	54.044	ug/L	98
71) Naphthalene	13.55	128	442826	50.549	ug/L	100
72) 1,2,3-Trichlorobenzene	13.79	180	206296	59.309	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 64.039 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

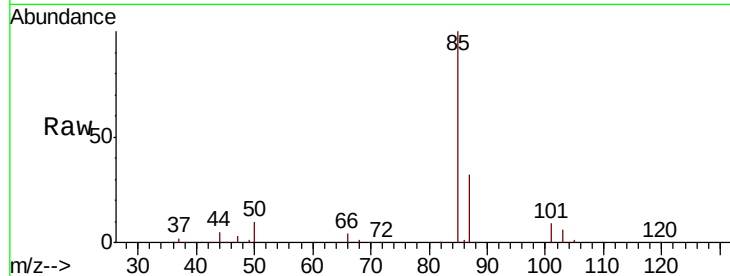
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 151817

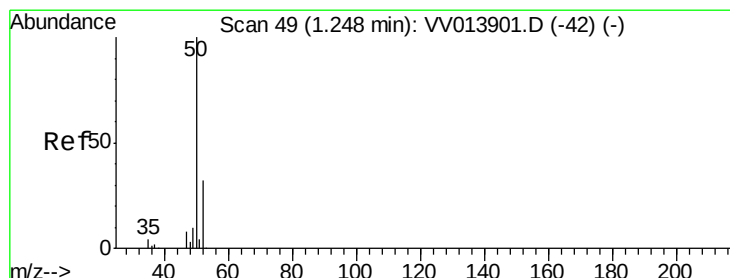
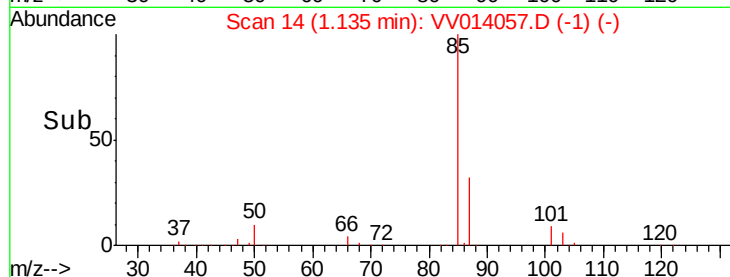
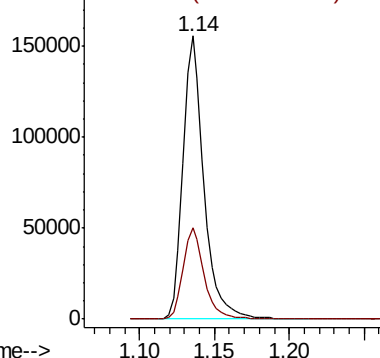
Ion Ratio Lower Upper

85 100

87 32.4 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VV0
Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 97.418 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV014057.D

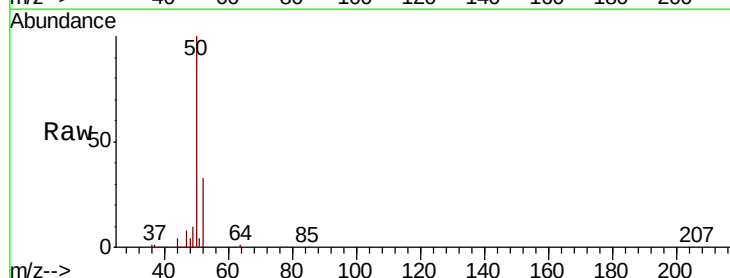
Acq: 13 Dec 2019 17:23

Tgt Ion: 50 Resp: 163989

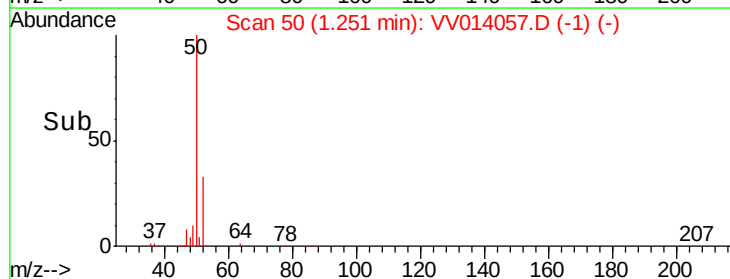
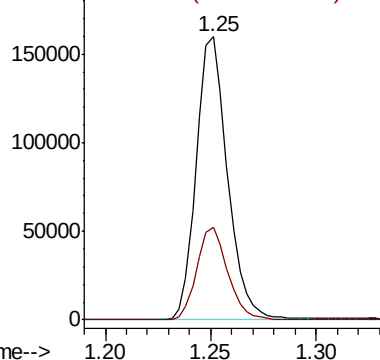
Ion Ratio Lower Upper

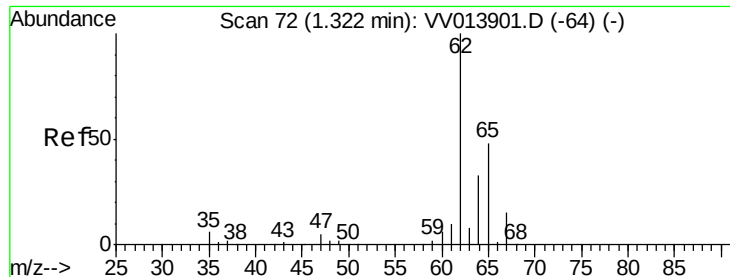
50 100

52 32.6 23.9 44.3



Abundance Ion 50.00 (49.70 to 50.70): VV0
Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 93.258 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

Instrument :

MSVOA_V

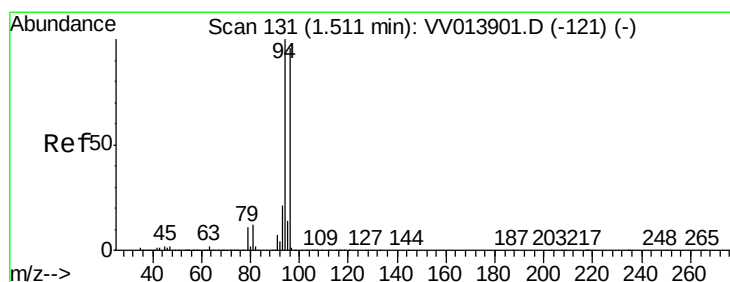
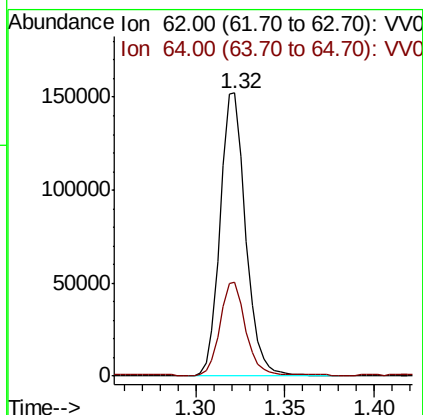
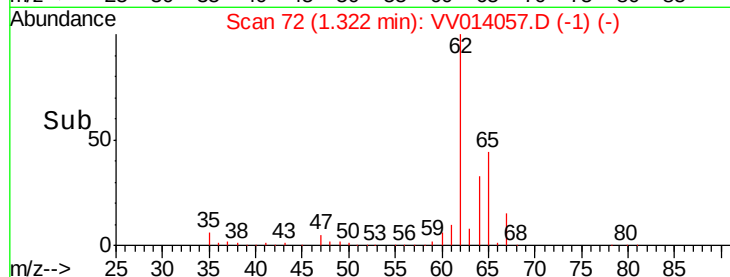
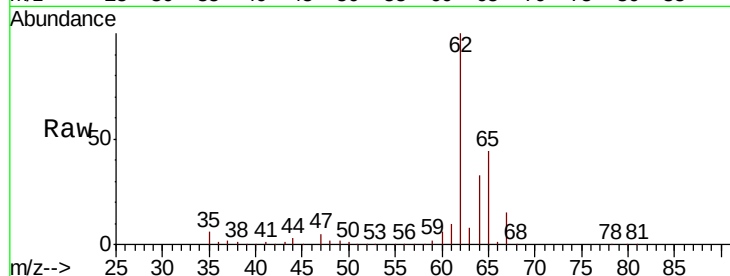
ClientSampleId :

Tot Ion: 62 Resp: 151528

Ion Ratio Lower Upper

62 100

64 33.2 23.0 42.8



#6

Bromomethane

Concen: 69.784 ug/L

RT: 1.51 min Scan# 130

Delta R.T. -0.00 min

Lab File: VV014057.D

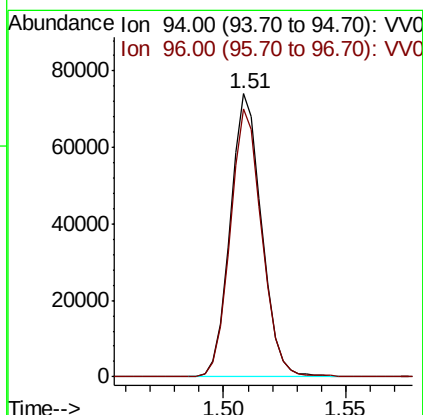
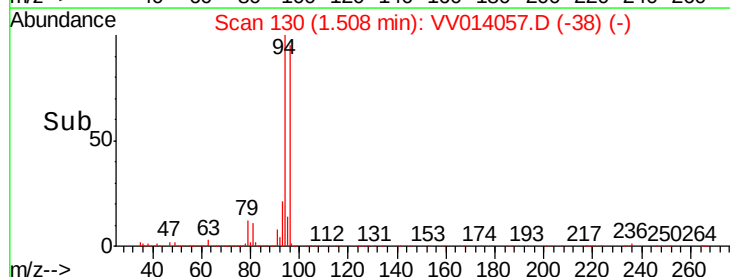
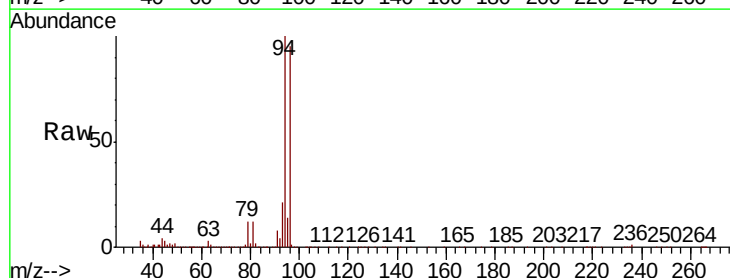
Acq: 13 Dec 2019 17:23

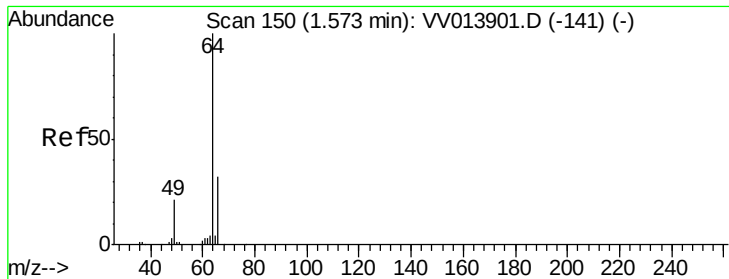
Tgt Ion: 94 Resp: 65828

Ion Ratio Lower Upper

94 100

96 94.6 66.8 124.0





#8

Chloroethane

Concen: 104.125 ug/L

RT: 1.57 min Scan# 150

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

Instrument :

MSVOA_V

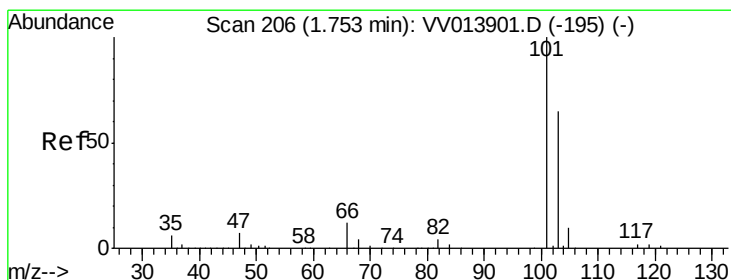
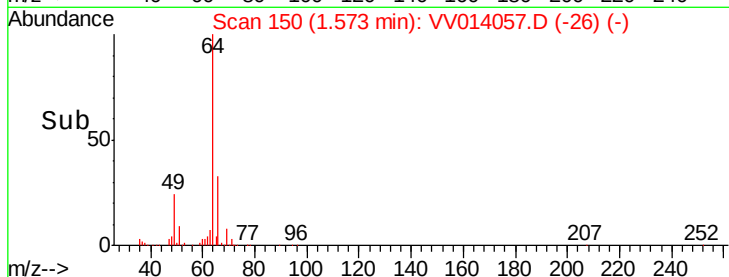
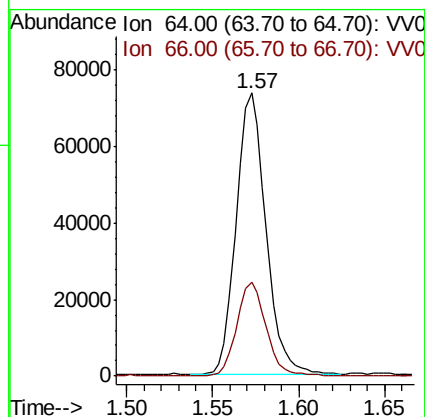
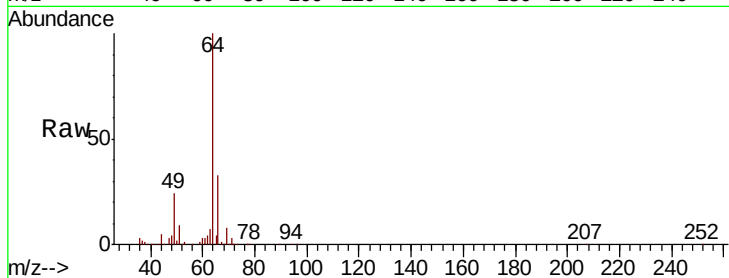
ClientSampleId :

Tot Ion: 64 Resp: 88606

Ion Ratio Lower Upper

64 100

66 33.0 22.6 42.0



#9

Trichlorofluoromethane

Concen: 78.414 ug/L

RT: 1.75 min Scan# 206

Delta R.T. 0.00 min

Lab File: VV014057.D

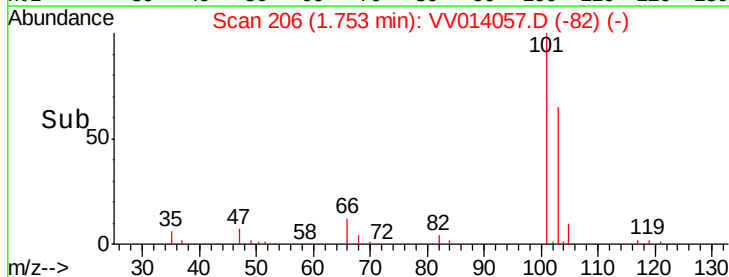
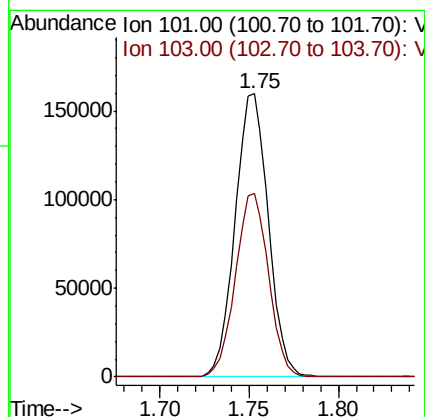
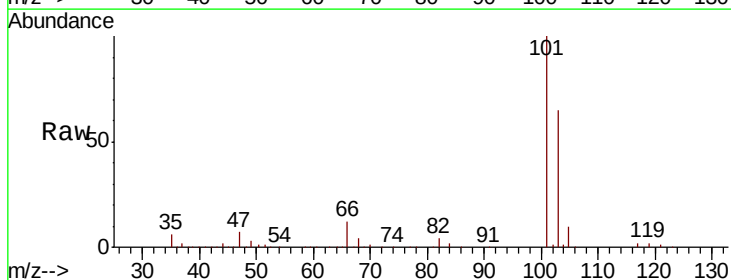
Acq: 13 Dec 2019 17:23

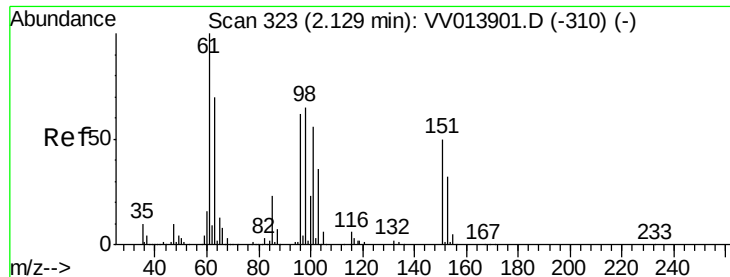
Tgt Ion: 101 Resp: 207157

Ion Ratio Lower Upper

101 100

103 64.8 52.5 78.7





#10

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

Concen: 92.110 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

Instrument :

MSVOA_V

ClientSampleId :

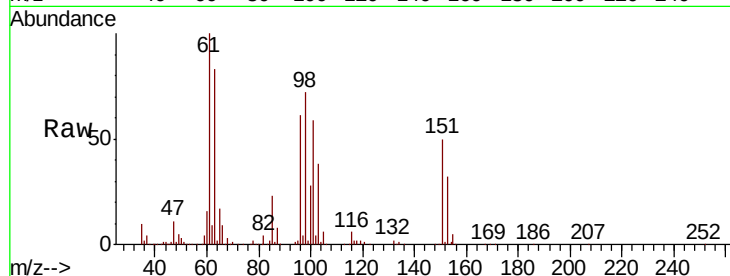
Tot Ion:101 Resp: 119287

Ion Ratio Lower Upper

101 100

85 41.5 34.4 51.6

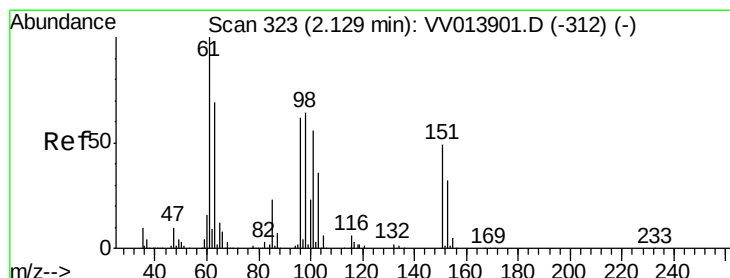
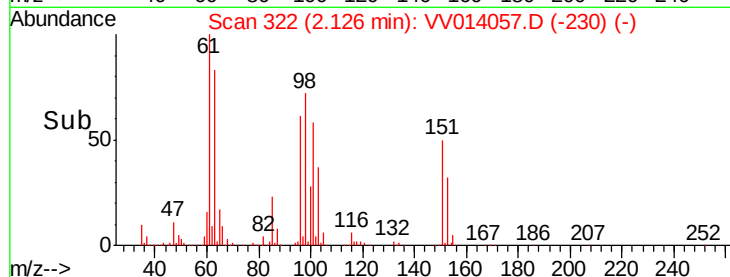
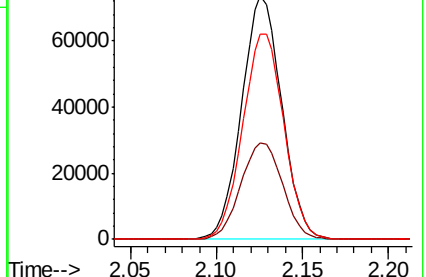
151 86.4 72.2 108.2



Abundance Ion 101.00 (100.70 to 101.70): VV013901.D (-310) (-)

Ion 85.00 (84.70 to 85.70): VV013901.D (-310) (-)

Ion 151.00 (150.70 to 151.70): VV013901.D (-310) (-)



#12

1,1-Dichloroethene

Concen: 91.186 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

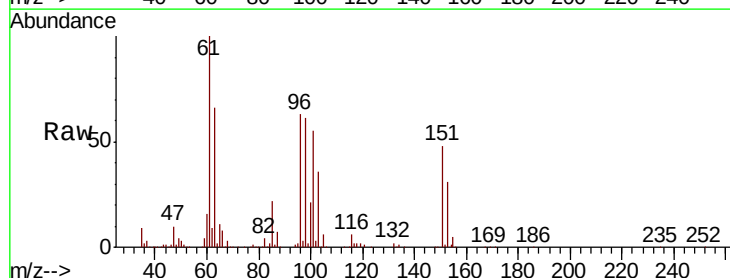
Tgt Ion: 96 Resp: 111198

Ion Ratio Lower Upper

96 100

61 159.6 120.0 223.0

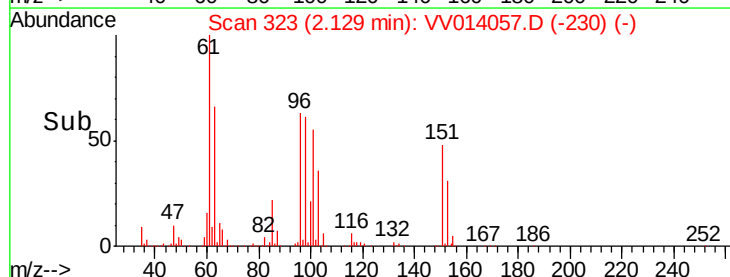
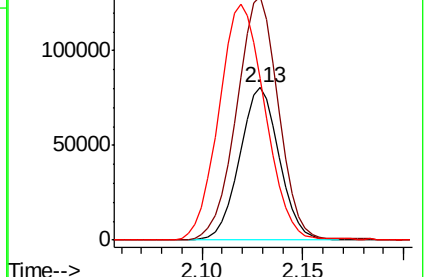
63 105.6 98.3 182.7

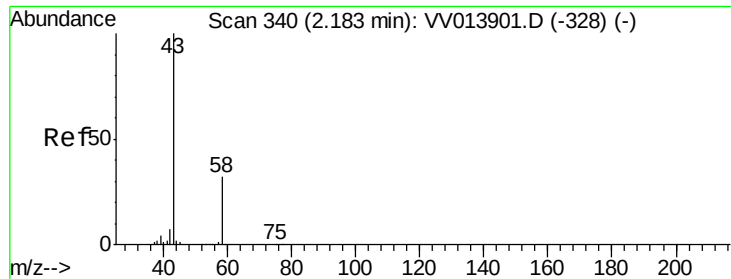


Abundance Ion 96.00 (95.70 to 96.70): VV013901.D (-312) (-)

Ion 61.00 (60.70 to 61.70): VV013901.D (-312) (-)

Ion 63.00 (62.70 to 63.70): VV013901.D (-312) (-)





#13

Acetone

Concen: 188.513 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

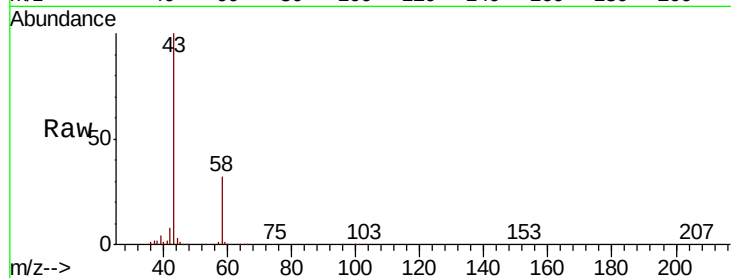
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 171826

Ion Ratio Lower Upper

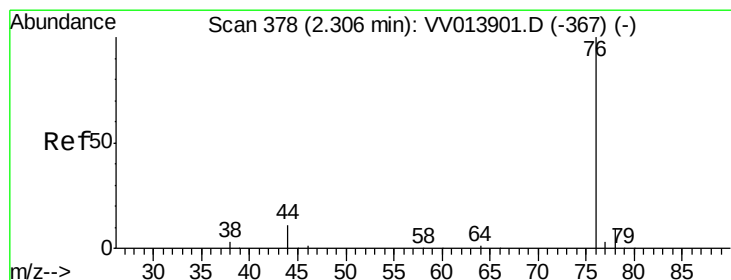
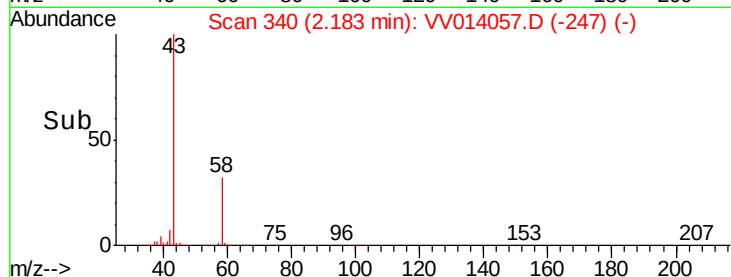
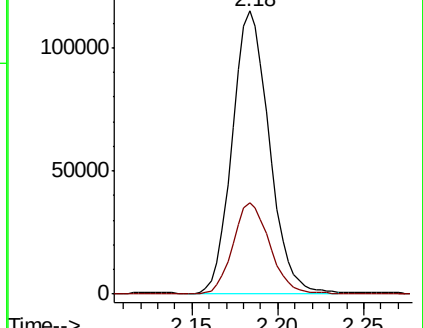
43 100

58 32.0 0.0 59.2



Abundance Ion 43.00 (42.70 to 43.70): VV014057.D (-247) (-)

Ion 58.00 (57.70 to 58.70): VV014057.D (-247) (-)



#14

Carbon disulfide

Concen: 72.040 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VV014057.D

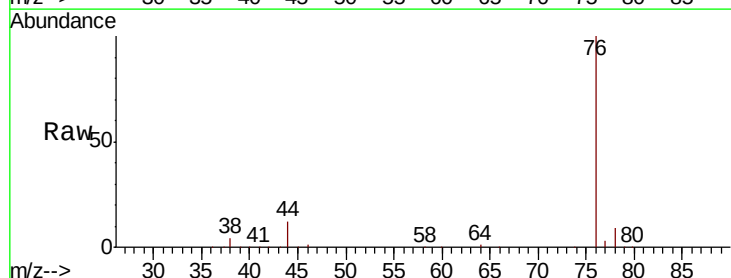
Acq: 13 Dec 2019 17:23

Tgt Ion: 76 Resp: 296874

Ion Ratio Lower Upper

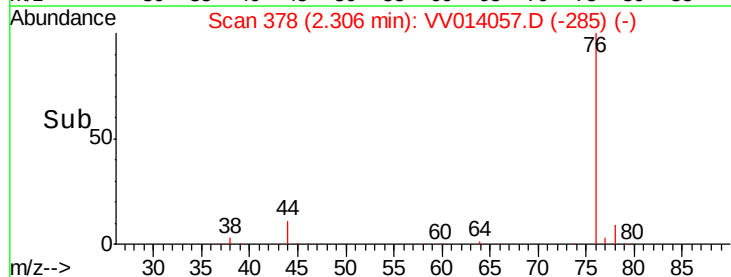
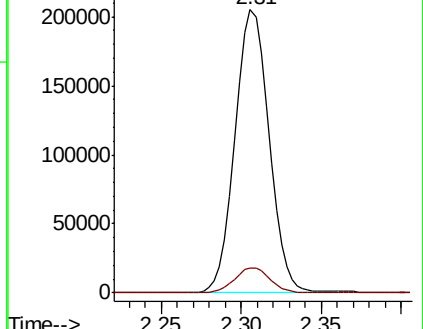
76 100

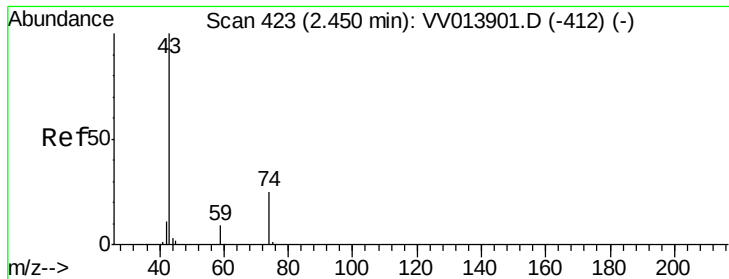
78 9.0 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV014057.D (-285) (-)

Ion 78.00 (77.70 to 78.70): VV014057.D (-285) (-)

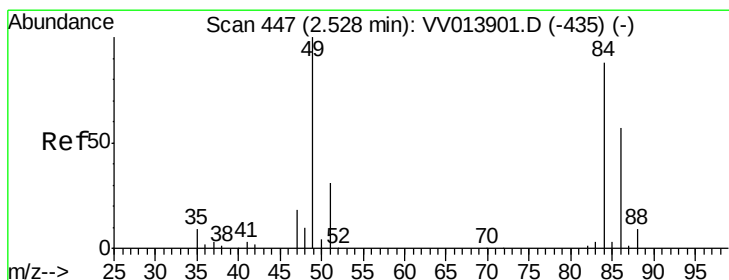
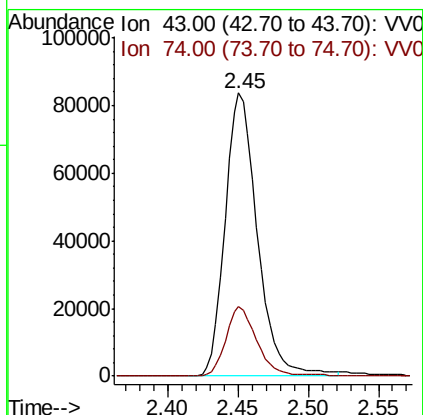
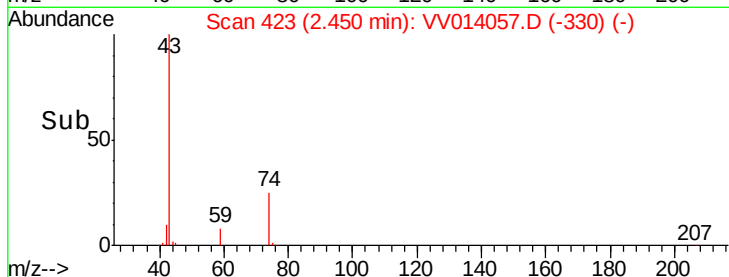
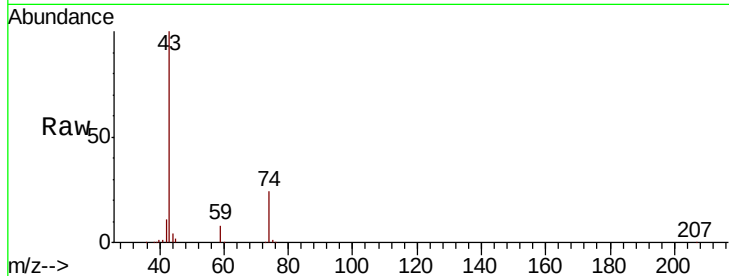




#15
Methvl Acetate
Concen: 83.499 ug/L
RT: 2.45 min Scan# 423
Delta R.T. 0.00 min
Lab File: VV014057.D
Acq: 13 Dec 2019 17:23

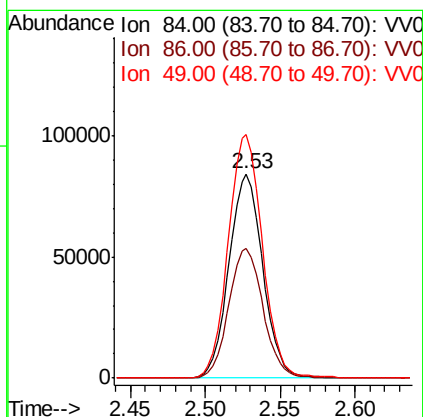
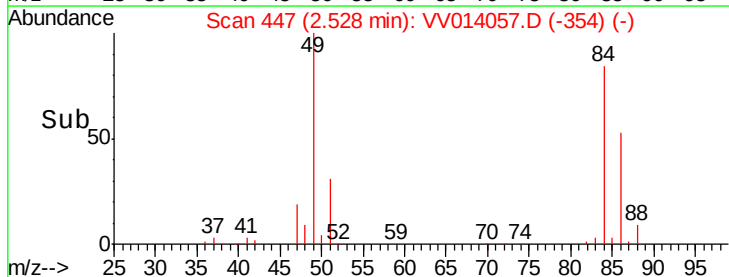
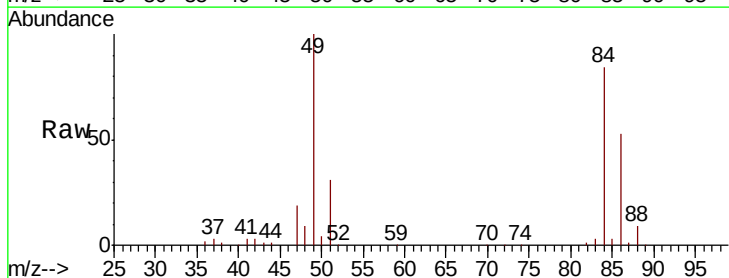
Instrument :
MSVOA_V
ClientSampleId :

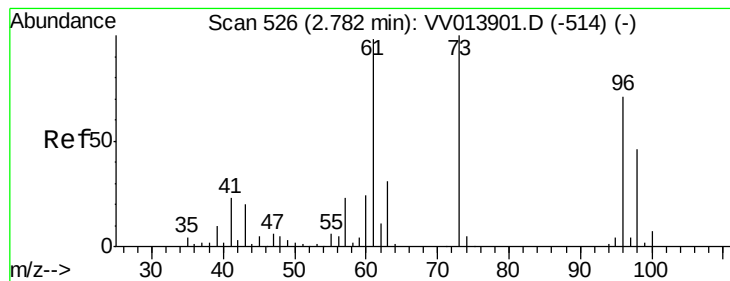
Tot Ion: 43 Resp: 133165
Ion Ratio Lower Upper
43 100
74 24.0 21.8 32.6



#16
Methylene chloride
Concen: 71.715 ug/L
RT: 2.53 min Scan# 447
Delta R.T. 0.00 min
Lab File: VV014057.D
Acq: 13 Dec 2019 17:23

Tgt Ion: 84 Resp: 132692
Ion Ratio Lower Upper
84 100
86 63.3 45.7 84.9
49 119.2 76.6 142.2





#17

trans-1,2-Dichloroethene

Concen: 67.611 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

Instrument :
MSVOA_V
ClientSampleId :

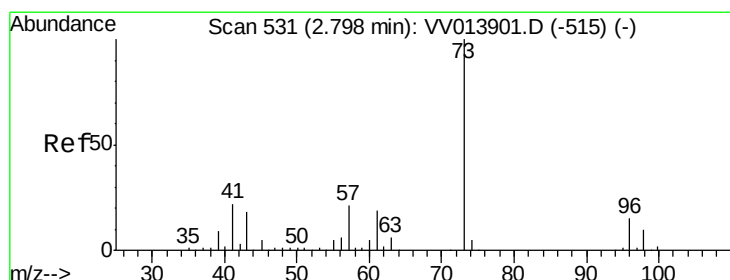
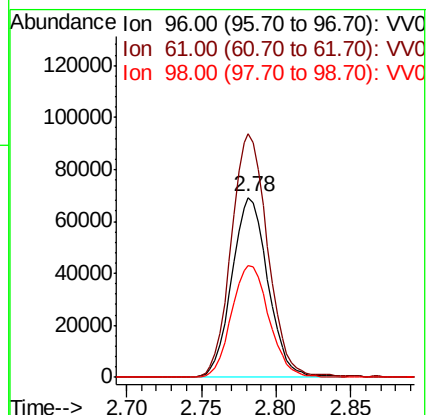
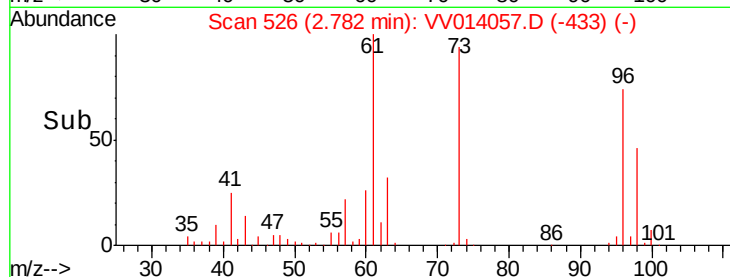
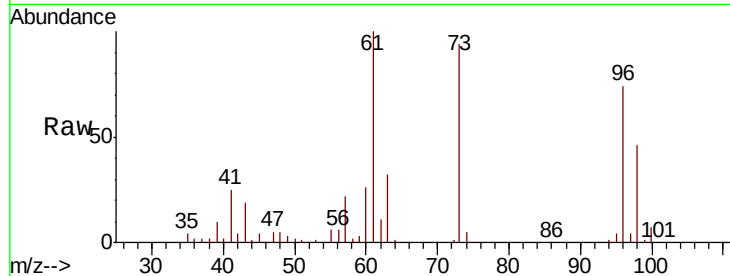
Tot Ion: 96 Resp: 116422

Ion Ratio Lower Upper

96 100

61 135.5 90.6 168.3

98 62.3 44.2 82.2



#18

Methyl tert-butyl Ether

Concen: 61.030 ug/L

RT: 2.80 min Scan# 531

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

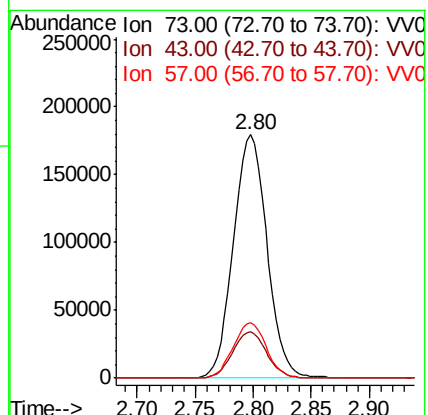
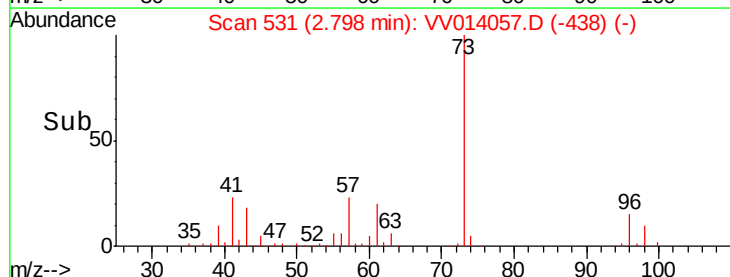
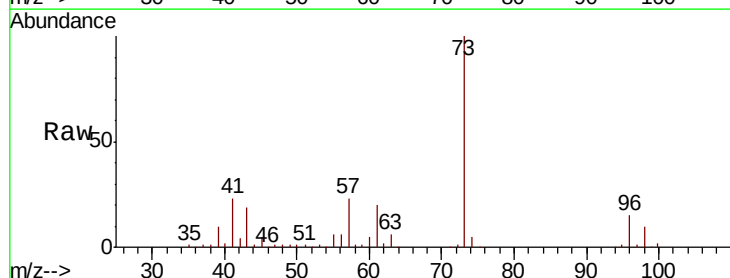
Tgt Ion: 73 Resp: 361105

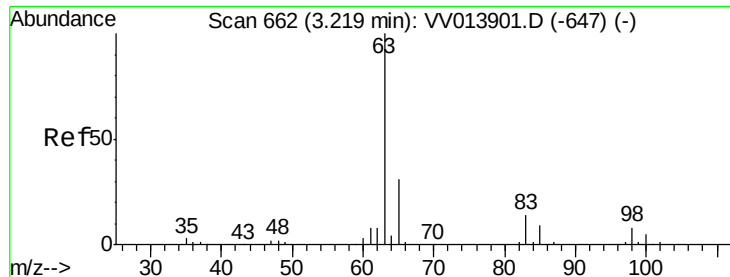
Ion Ratio Lower Upper

73 100

43 18.9 15.6 23.4

57 22.6 16.0 24.0





#19

1,1-Dichloroethane

Concen: 72.802 ug/L

RT: 3.22 min Scan# 662

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

Instrument :

MSVOA_V

ClientSampled :

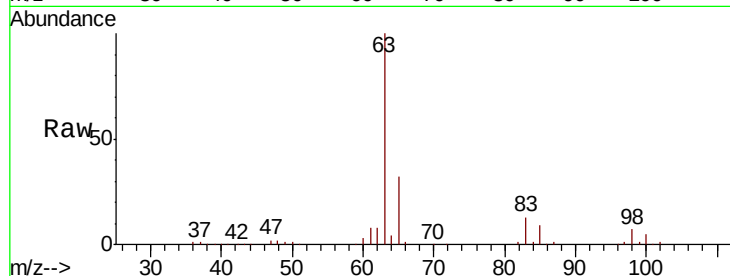
Tot Ion: 63 Resp: 228611

Ion Ratio Lower Upper

63 100

65 31.8 22.3 41.3

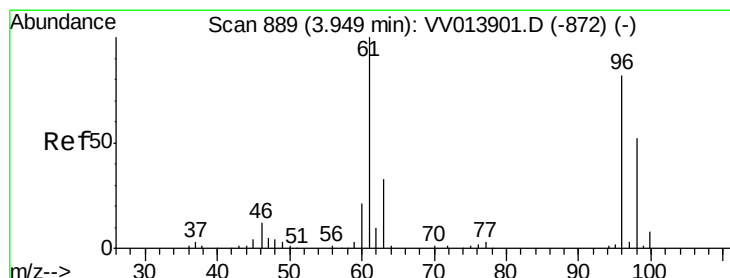
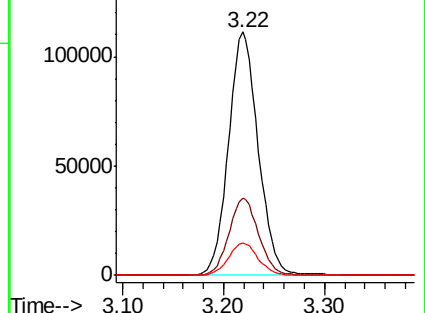
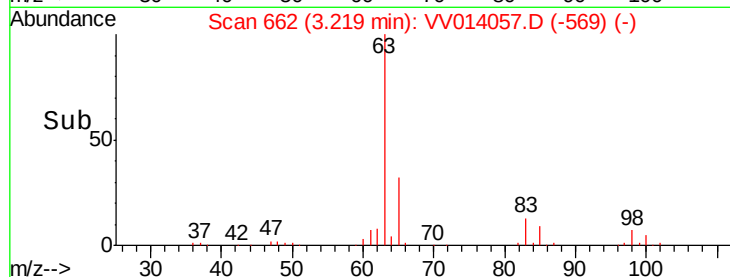
83 13.1 10.3 19.1



Abundance Ion 63.00 (62.70 to 63.70): VV014057.D (-569) (-)

Ion 65.00 (64.70 to 65.70): VV014057.D (-569) (-)

Ion 83.00 (82.70 to 83.70): VV014057.D (-569) (-)



#20

cis-1,2-Dichloroethene

Concen: 65.353 ug/L

RT: 3.95 min Scan# 890

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

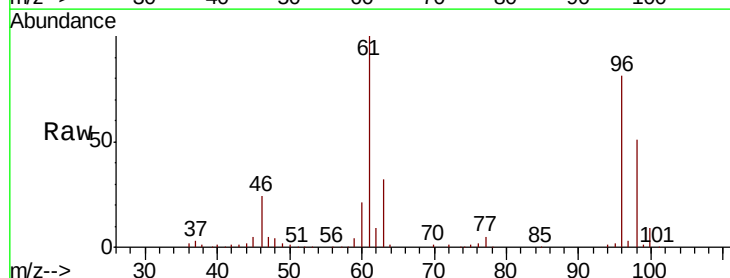
Tgt Ion: 96 Resp: 132548

Ion Ratio Lower Upper

96 100

61 123.7 80.0 148.6

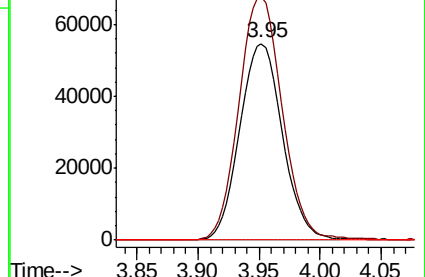
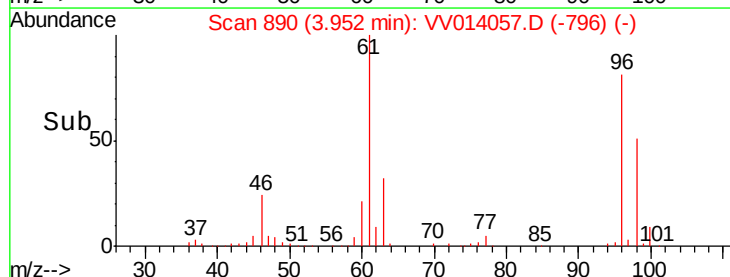
68 0.0 0.0 0.0

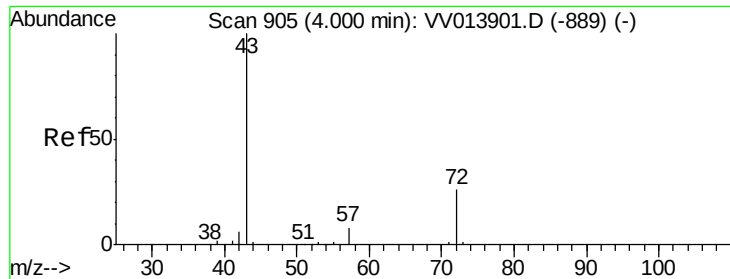


Abundance Ion 96.00 (95.70 to 96.70): VV014057.D (-796) (-)

Ion 61.00 (60.70 to 61.70): VV014057.D (-796) (-)

Ion 68.00 (67.70 to 68.70): VV014057.D (-796) (-)





#22

2-Butanone

Concen: 166.368 ug/L

RT: 4.00 min Scan# 906

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

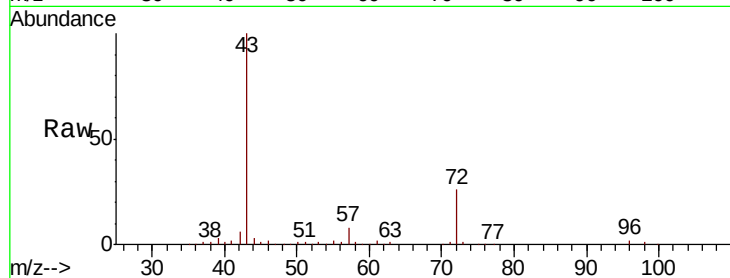
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 195428

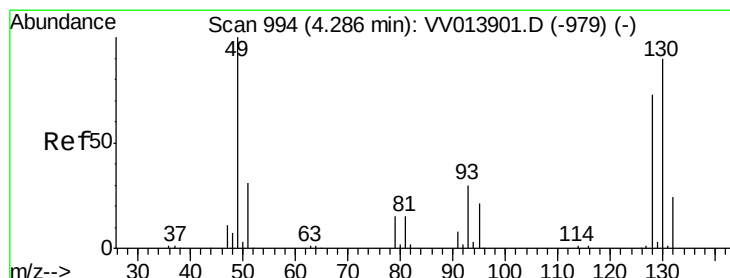
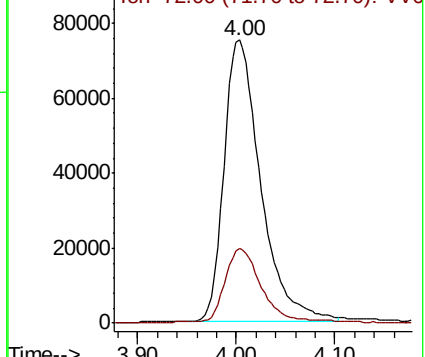
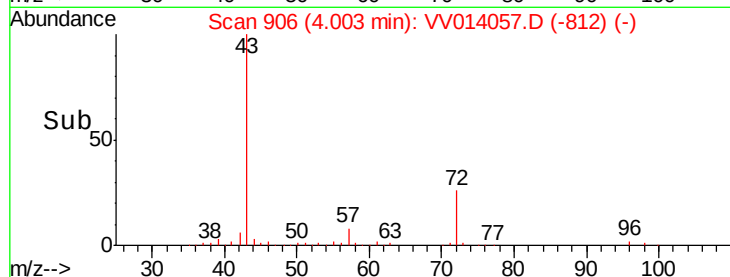
Ion Ratio Lower Upper

43 100

72 25.2 15.0 45.0



Abundance Ion 43.00 (42.70 to 43.70): VV014057.D (-812) (-)



#23

Bromochloromethane

Concen: 63.855 ug/L

RT: 4.29 min Scan# 995

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

Tgt Ion: 128 Resp: 71216

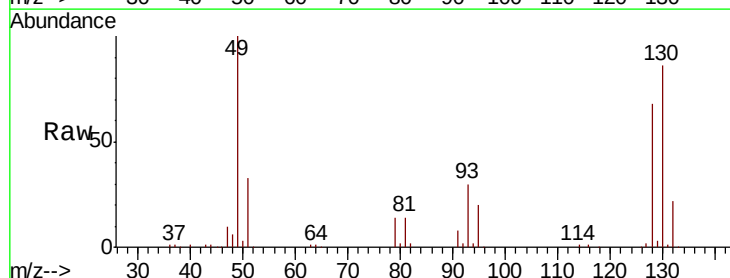
Ion Ratio Lower Upper

128 100

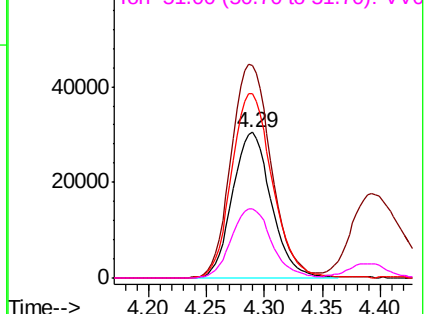
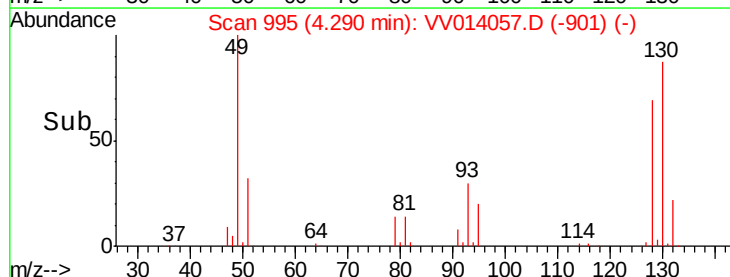
49 146.4 84.6 157.2

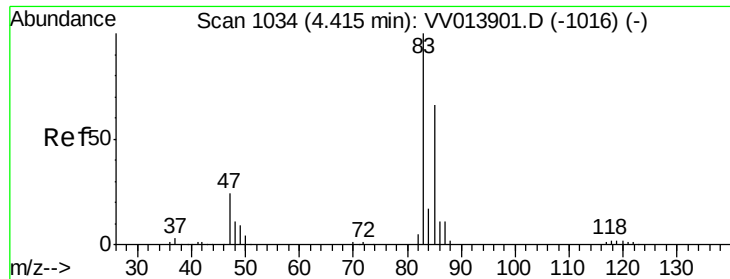
130 126.3 89.9 167.0

51 47.9 30.5 45.7#



Abundance Ion 128.00 (127.70 to 128.70): VV014057.D (-901) (-)

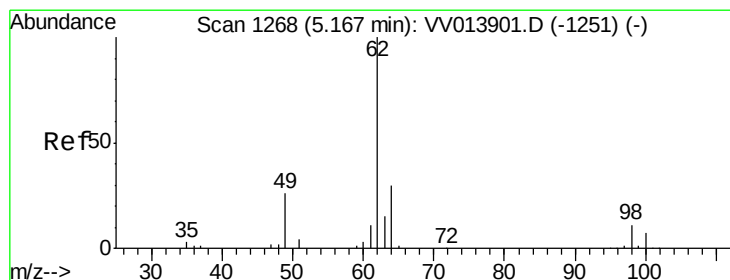
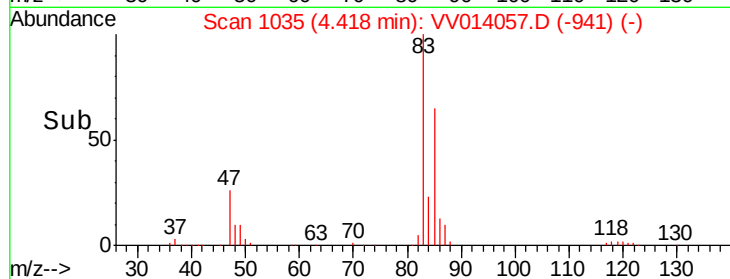
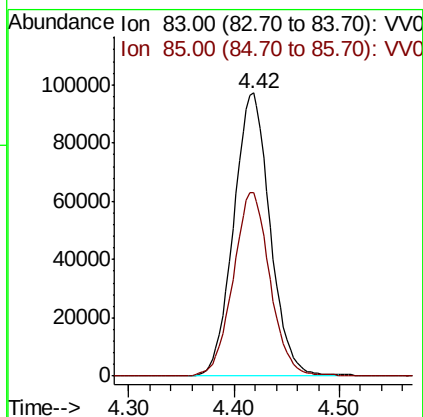
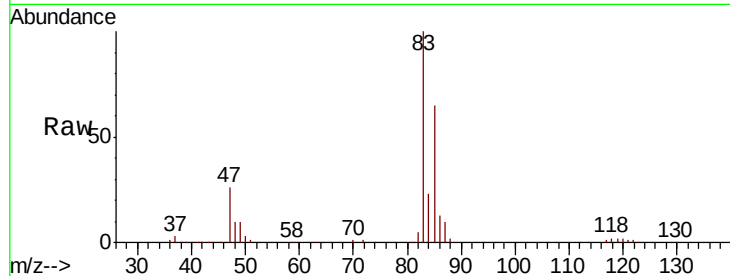




#25
Chloroform
Concen: 65.496 ug/L
RT: 4.42 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VV014057.D
Acq: 13 Dec 2019 17:23

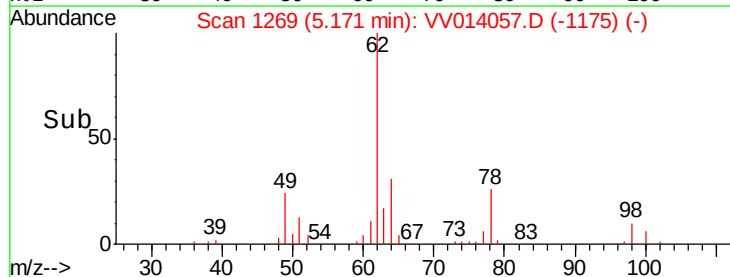
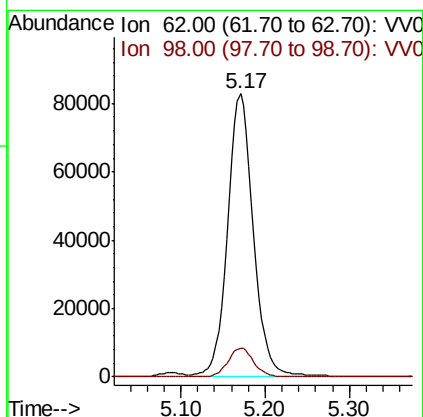
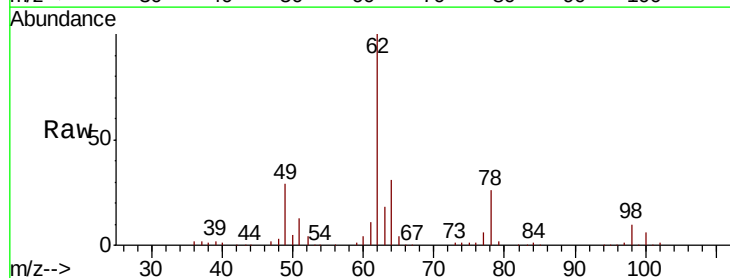
Instrument :
MSVOA_V
ClientSampled :

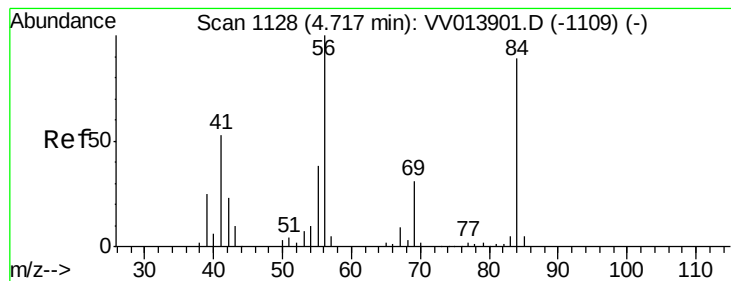
Tot Ion: 83 Resp: 233131
Ion Ratio Lower Upper
83 100
85 64.9 45.8 85.2



#27
1,2-Dichloroethane
Concen: 63.387 ug/L
RT: 5.17 min Scan# 1269
Delta R.T. 0.00 min
Lab File: VV014057.D
Acq: 13 Dec 2019 17:23

Tgt Ion: 62 Resp: 175358
Ion Ratio Lower Upper
62 100
98 10.3 7.5 11.3





#29

Cyclohexane

Concen: 71.295 ug/L

RT: 4.72 min Scan# 1128

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

Instrument :
MSVOA_V
ClientSampleId :

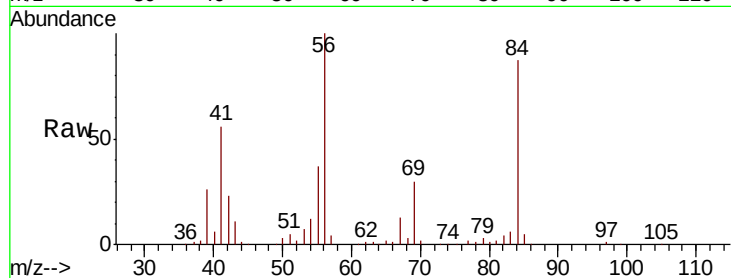
Tot Ion: 56 Resp: 188143

Ion Ratio Lower Upper

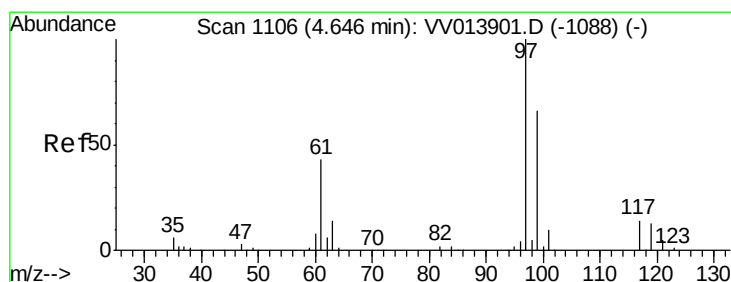
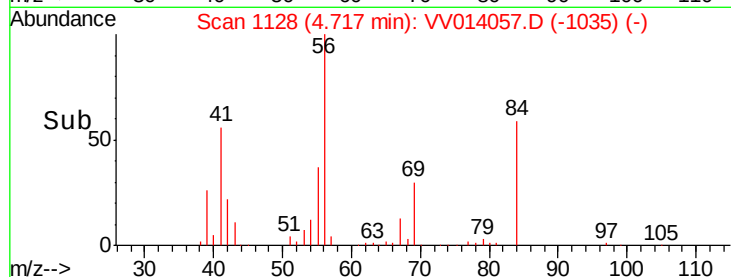
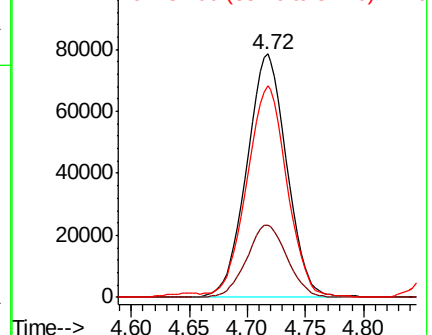
56 100

69 30.2 25.8 38.8

84 86.8 76.0 114.0



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 59.199 ug/L

RT: 4.65 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

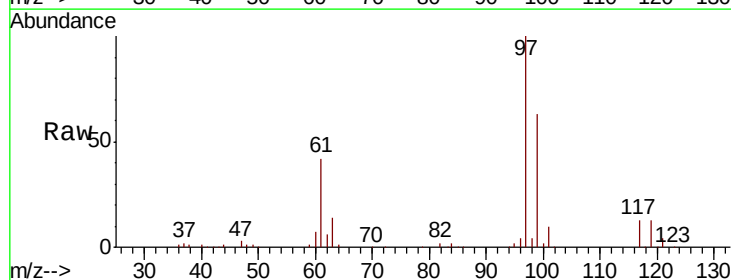
Tgt Ion: 97 Resp: 198459

Ion Ratio Lower Upper

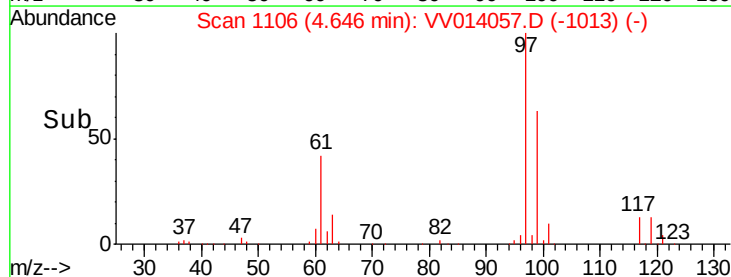
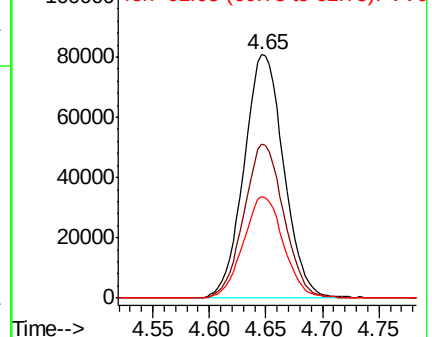
97 100

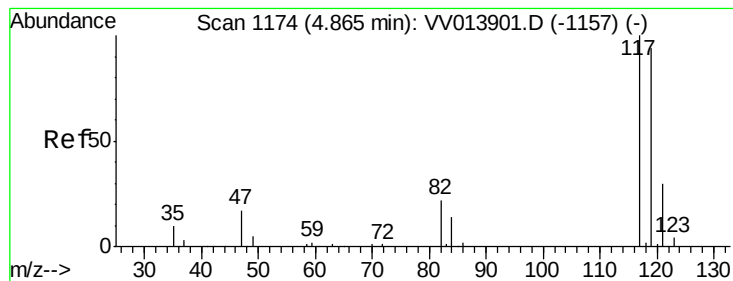
99 63.3 51.1 76.7

61 42.1 31.3 46.9



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 56.837 ug/L

RT: 4.87 min Scan# 1174

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

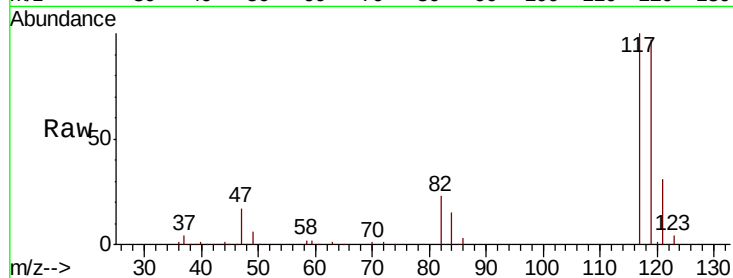
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:117 Resp: 176767

Ion Ratio Lower Upper

117 100

119 96.5 78.2 117.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

80000

60000

40000

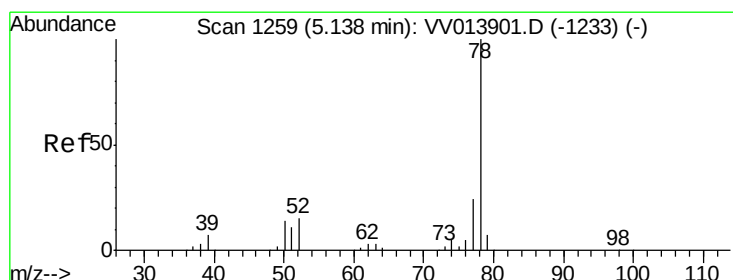
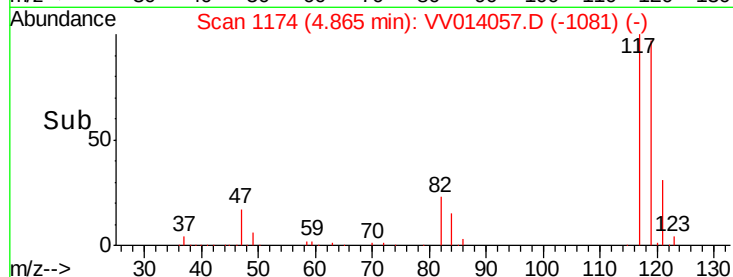
20000

0

4.87

4.80 4.90 5.00

Time-->



#33

Benzene

Concen: 69.595 ug/L

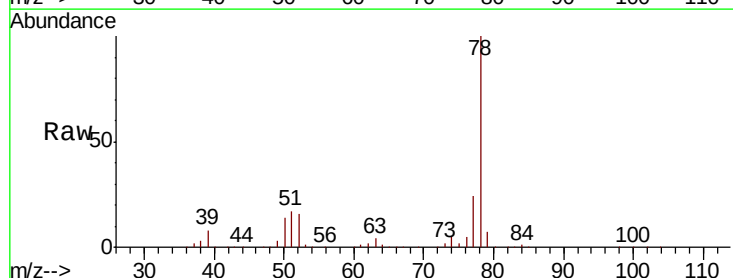
RT: 5.14 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

Tgt Ion: 78 Resp: 505585



Abundance Ion 78.00 (77.70 to 78.70): VV0

250000

200000

150000

100000

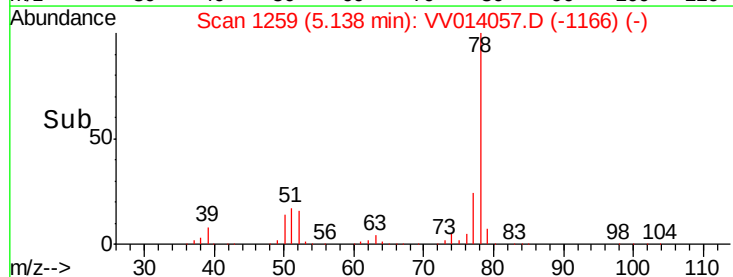
50000

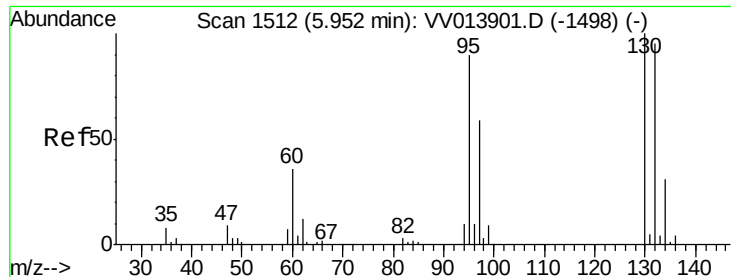
0

5.14

5.00 5.10 5.20 5.30

Time-->

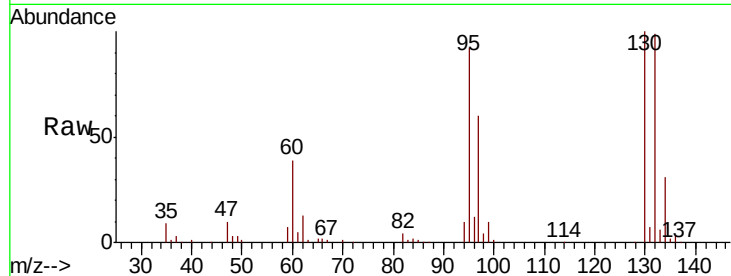




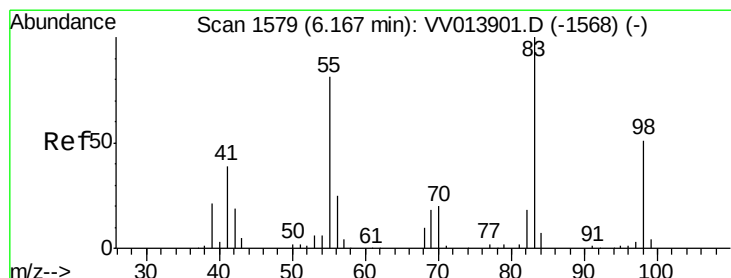
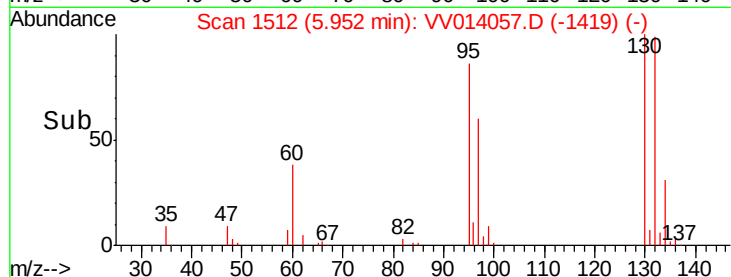
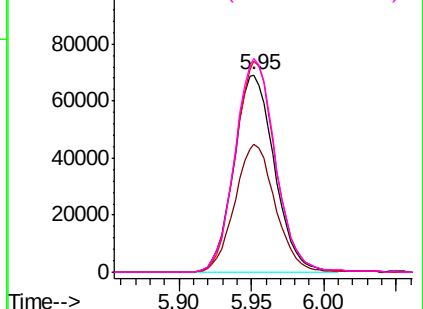
#34
 Trichloroethene
 Concen: 66.472 ug/L
 RT: 5.95 min Scan# 1512
 Delta R.T. 0.00 min
 Lab File: VV014057.D
 Acq: 13 Dec 2019 17:23

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 95 Resp: 134222
 Ion Ratio Lower Upper
 95 100
 97 64.7 43.4 80.6
 132 106.9 73.1 135.8
 130 108.1 75.3 139.8

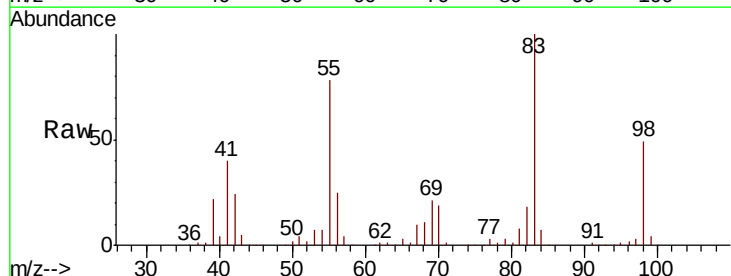


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

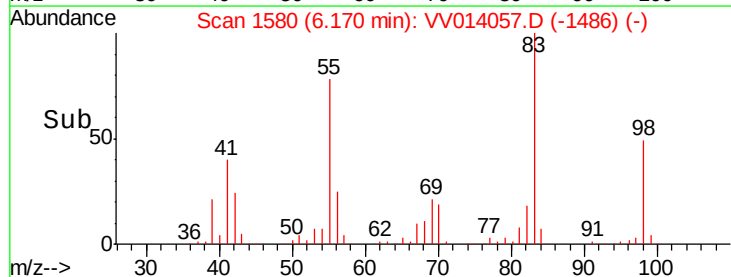
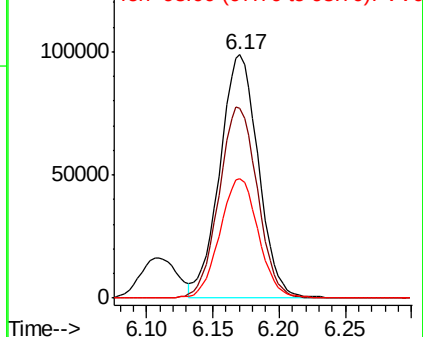


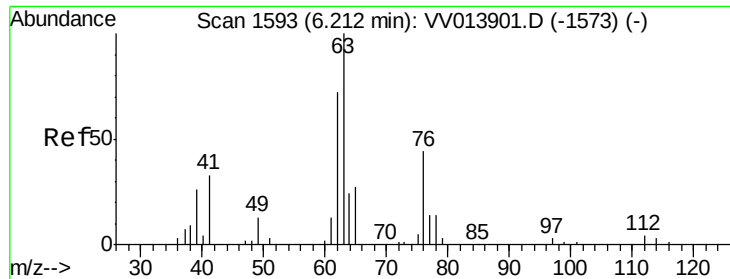
#35
 Methylcyclohexane
 Concen: 66.046 ug/L
 RT: 6.17 min Scan# 1580
 Delta R.T. 0.00 min
 Lab File: VV014057.D
 Acq: 13 Dec 2019 17:23

Tgt Ion: 83 Resp: 198495
 Ion Ratio Lower Upper
 83 100
 55 78.5 55.5 83.3
 98 49.1 38.5 57.7



Abundance Ion 83.00 (82.70 to 83.70): VV0
 Ion 55.00 (54.70 to 55.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0

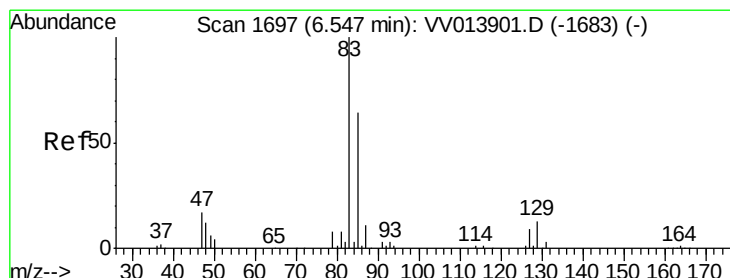
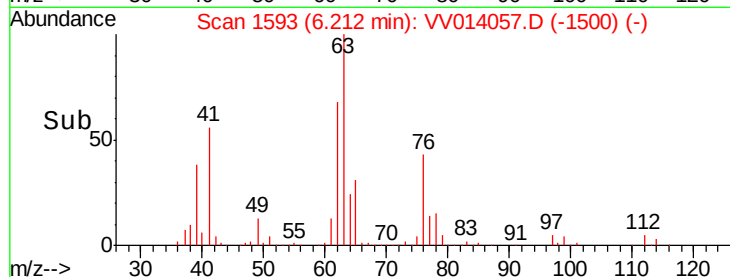
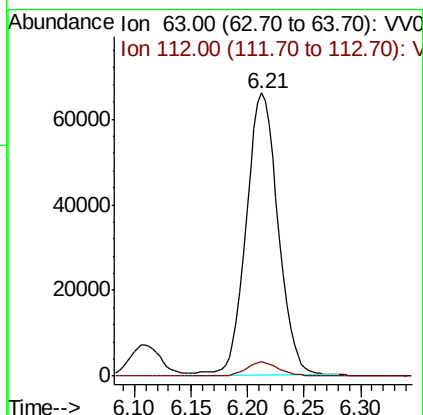
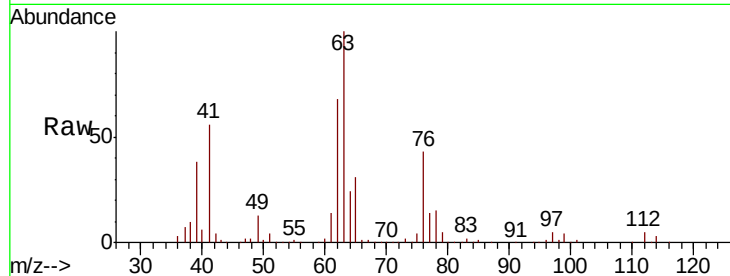




#37
 1,2-Dichloropropane
 Concen: 73.242 ug/L
 RT: 6.21 min Scan# 1593
 Delta R.T. 0.00 min
 Lab File: VV014057.D
 Acq: 13 Dec 2019 17:23

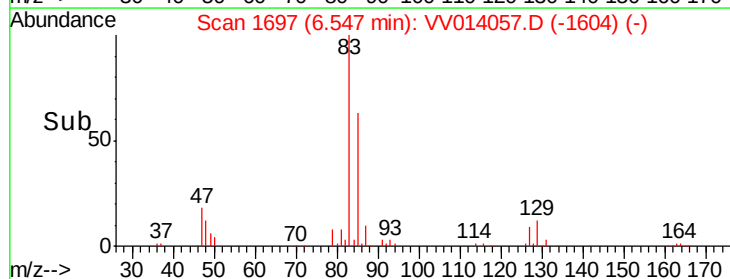
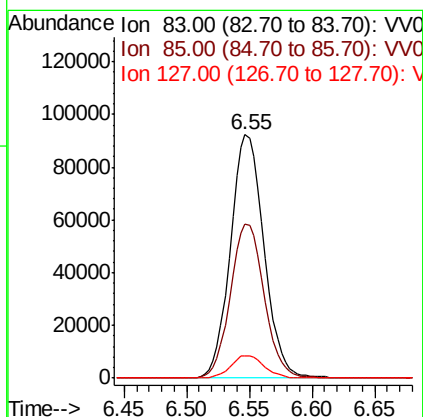
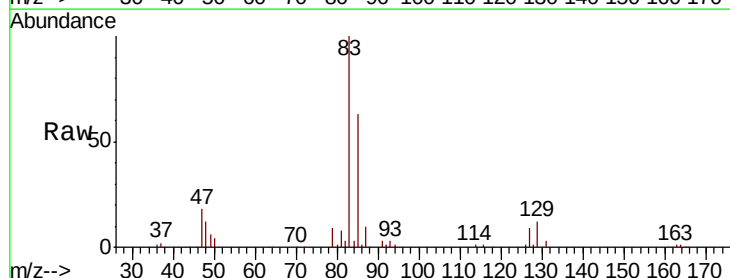
Instrument :
 MSVOA_V
 ClientSampleId :

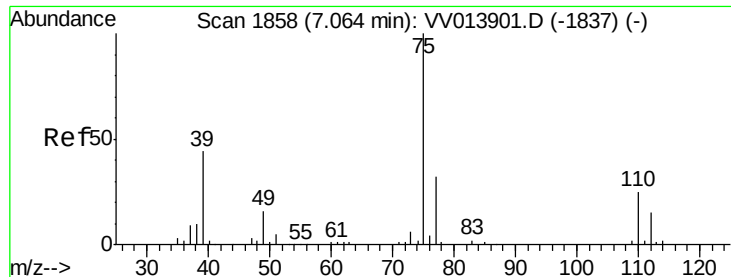
Tot Ion: 63 Resp: 129781
 Ion Ratio Lower Upper
 63 100
 112 5.0 4.2 6.2



#38
 Bromodichloromethane
 Concen: 61.587 ug/L
 RT: 6.55 min Scan# 1697
 Delta R.T. 0.00 min
 Lab File: VV014057.D
 Acq: 13 Dec 2019 17:23

Tgt Ion: 83 Resp: 171678
 Ion Ratio Lower Upper
 83 100
 85 63.3 45.0 83.6
 127 9.3 7.9 11.9



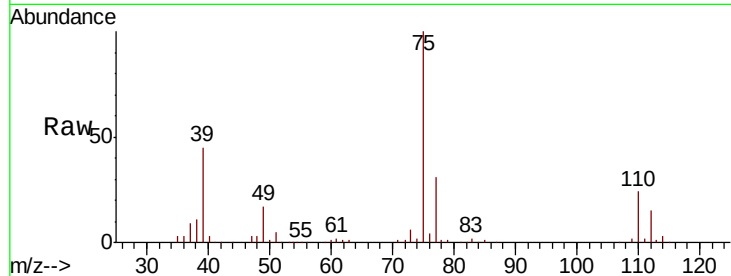


#39

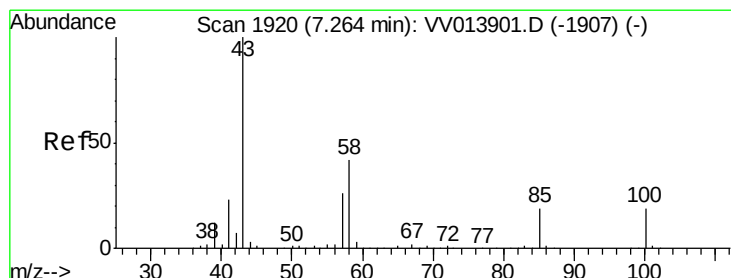
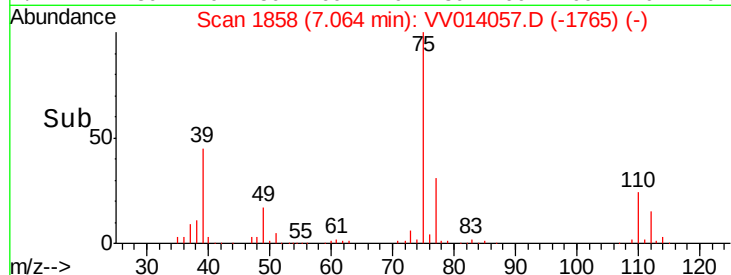
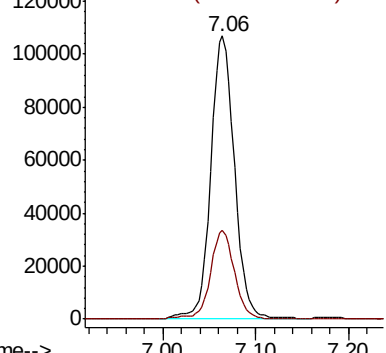
cis-1,3-Dichloropropene
 Concen: 60.931 ug/L
 RT: 7.06 min Scan# 1858
 Delta R.T. 0.00 min
 Lab File: VV014057.D
 Acq: 13 Dec 2019 17:23

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 75 Resp: 190353
 Ion Ratio Lower Upper
 75 100
 77 31.2 22.3 41.5



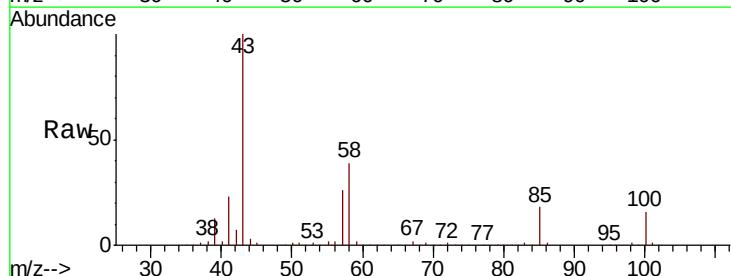
Abundance Ion 75.00 (74.70 to 75.70): VV014057.D (-1765) (-)
 Ion 77.00 (76.70 to 77.70): VV014057.D (-1765) (-)



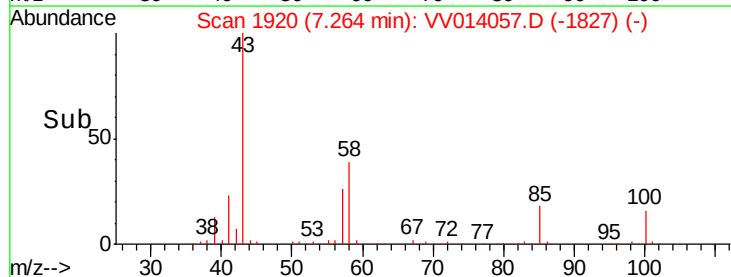
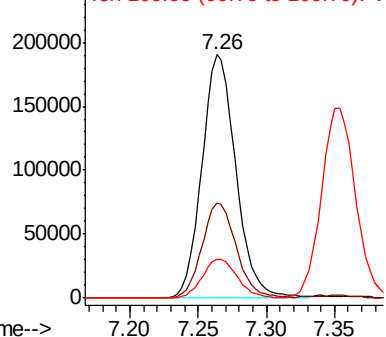
#40

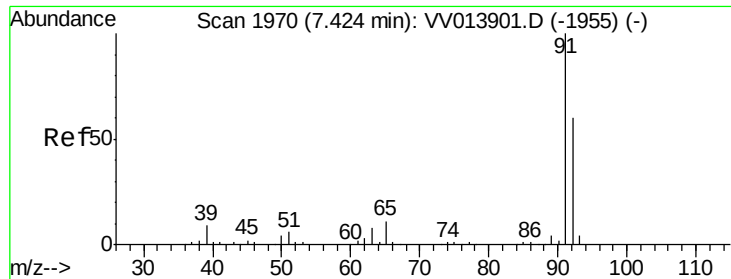
4-Methyl-2-pentanone
 Concen: 144.735 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VV014057.D
 Acq: 13 Dec 2019 17:23

Tgt Ion: 43 Resp: 330080
 Ion Ratio Lower Upper
 43 100
 58 39.3 33.4 50.2
 100 16.5 15.0 22.4



Abundance Ion 43.00 (42.70 to 43.70): VV014057.D (-1827) (-)
 Ion 58.00 (57.70 to 58.70): VV014057.D (-1827) (-)
 Ion 100.00 (99.70 to 100.70): VV014057.D (-1827) (-)





#42

Toluene

Concen: 64.229 ug/L

RT: 7.42 min Scan# 1970

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

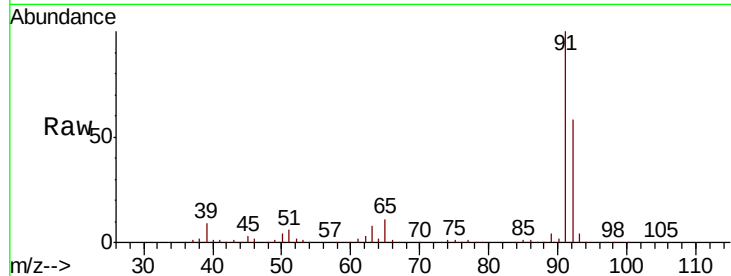
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 518470

Ion Ratio Lower Upper

91 100

92 57.6 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VV014057.D (-1877) (-)

Ion 92.00 (91.70 to 92.70): VV014057.D (-1877) (-)

7.42

300000

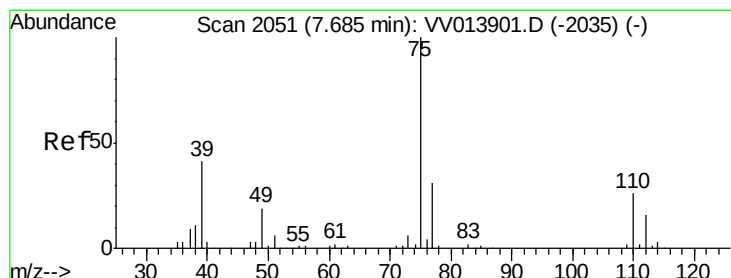
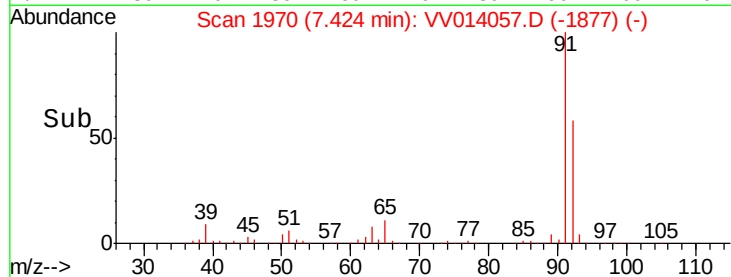
200000

100000

0

7.40 7.50

Time-->



#44

trans-1,3-Dichloropropene

Concen: 56.680 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. 0.00 min

Lab File: VV014057.D

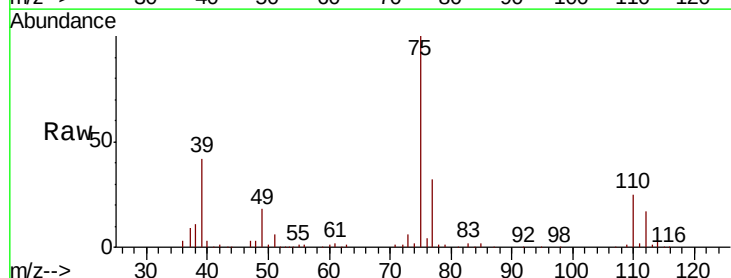
Acq: 13 Dec 2019 17:23

Tgt Ion: 75 Resp: 167150

Ion Ratio Lower Upper

75 100

77 31.8 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VV014057.D (-1958) (-)

Ion 77.00 (76.70 to 77.70): VV014057.D (-1958) (-)

7.69

100000

80000

60000

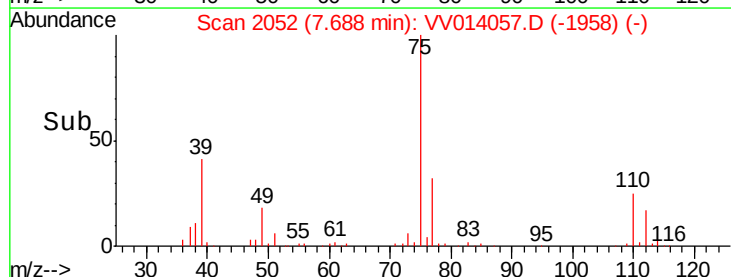
40000

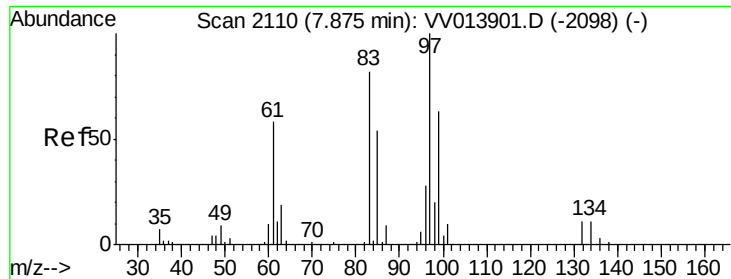
20000

0

7.60 7.70 7.80

Time-->

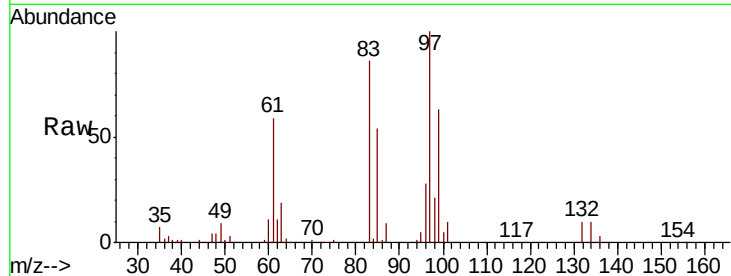




#45
1,1,2-Trichloroethane
Concen: 63.884 ug/L
RT: 7.87 min Scan# 2110
Delta R.T. 0.00 min
Lab File: VV014057.D
Acq: 13 Dec 2019 17:23

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:	97	Resp:	122024
Ion	Ratio	Lower	Upper
97	100		
99	62.9	47.2	87.6
83	86.1	58.0	107.6
85	54.3	38.0	70.6



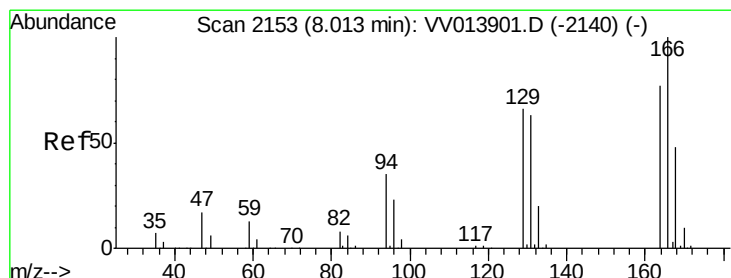
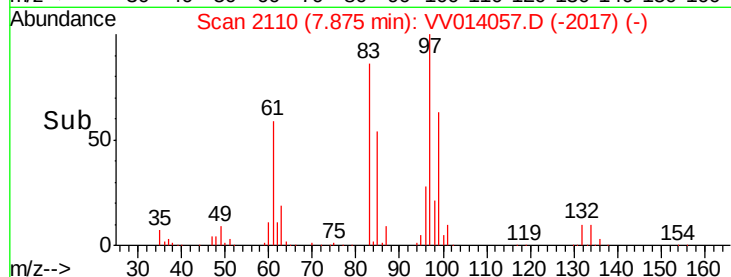
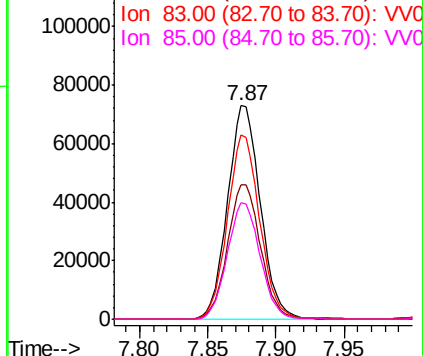
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

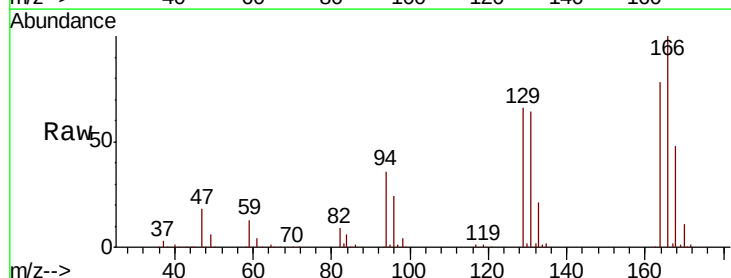
Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46
Tetrachloroethene
Concen: 60.355 ug/L
RT: 8.01 min Scan# 2153
Delta R.T. 0.00 min
Lab File: VV014057.D
Acq: 13 Dec 2019 17:23

Tgt Ion:	164	Resp:	113549
Ion	Ratio	Lower	Upper
164	100		
129	83.9	64.3	119.5
131	81.7	60.1	111.7
166	127.8	91.8	170.6



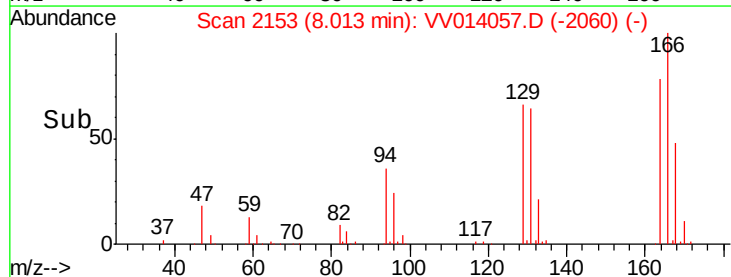
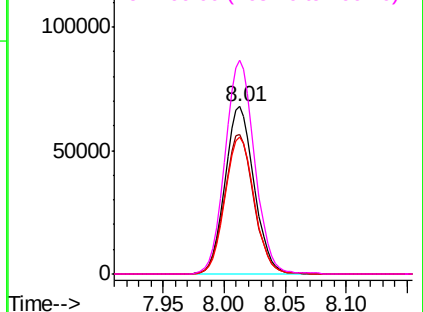
Abundance

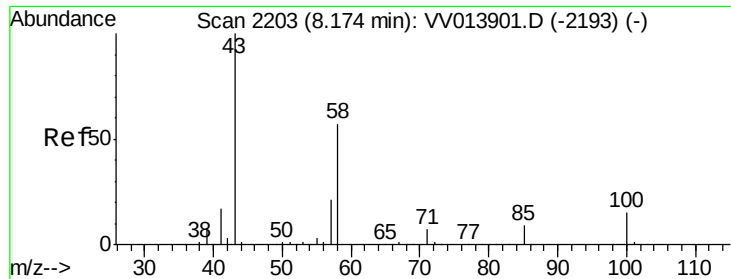
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

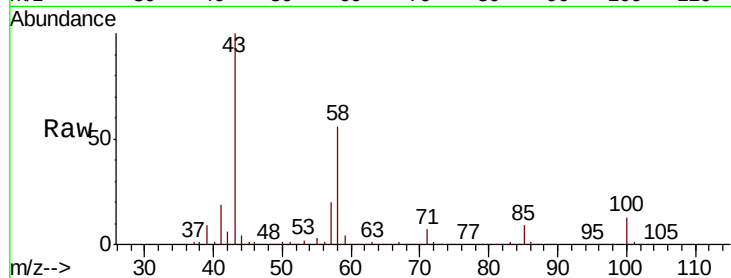




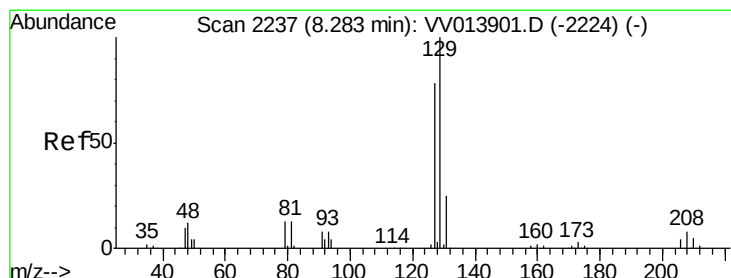
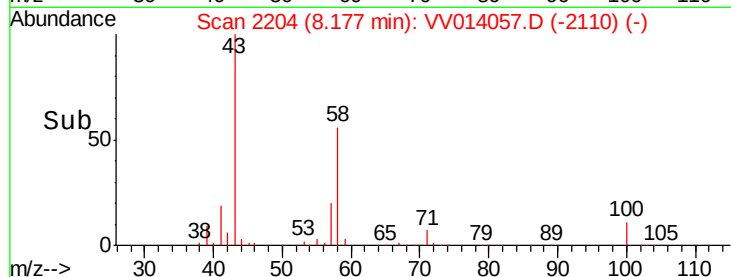
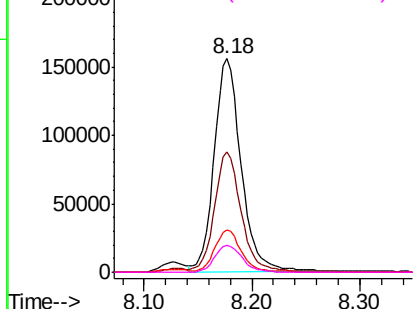
#48
2-Hexanone
Concen: 156.383 ug/L
RT: 8.18 min Scan# 2204
Delta R.T. 0.00 min
Lab File: VV014057.D
Acq: 13 Dec 2019 17:23

Instrument :
MSVOA_V
ClientSampleID :

Tot Ion: 43 Resp: 268879
Ion Ratio Lower Upper
43 100
58 54.5 45.6 68.4
57 19.5 17.0 25.6
100 12.7 11.5 17.3

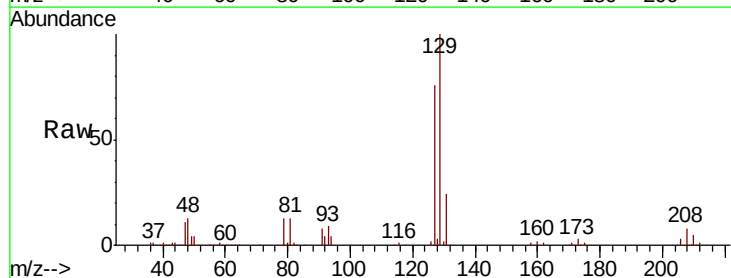


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

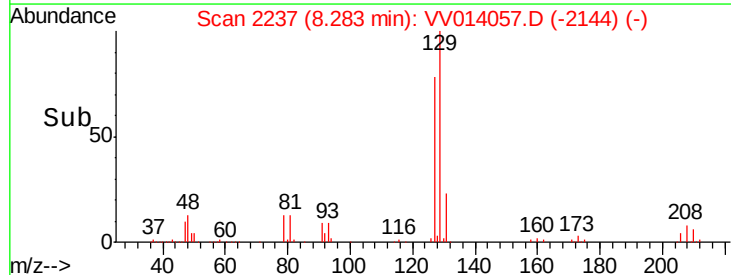
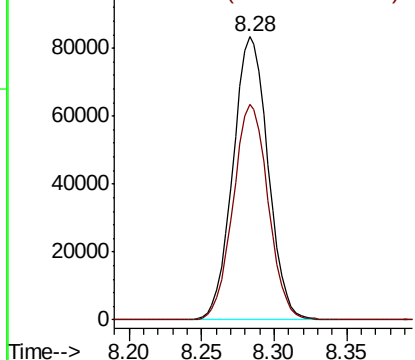


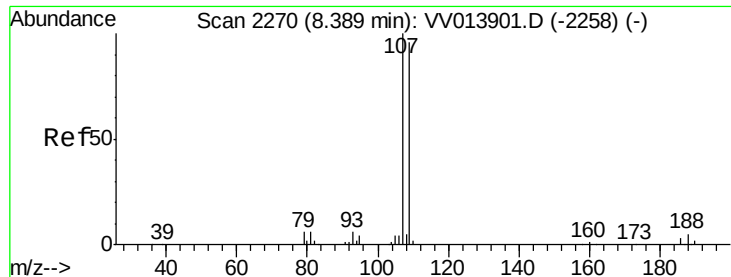
#49
Dibromochloromethane
Concen: 56.455 ug/L
RT: 8.28 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VV014057.D
Acq: 13 Dec 2019 17:23

Tgt Ion:129 Resp: 139932
Ion Ratio Lower Upper
129 100
127 76.3 53.8 100.0



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

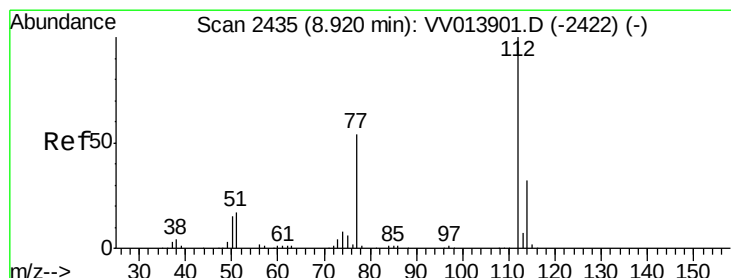
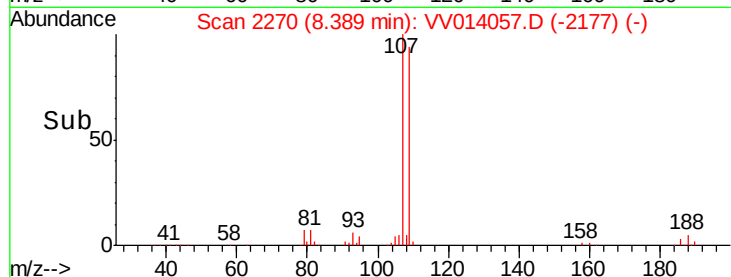
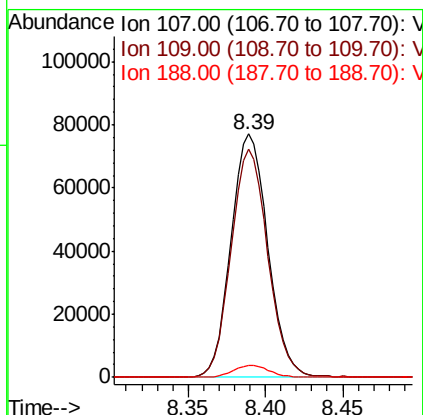
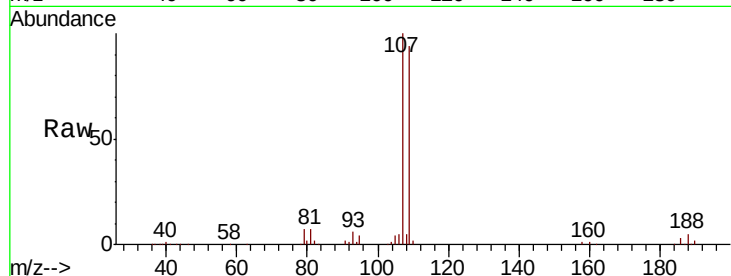




#50
1,2-Dibromoethane
Concen: 60.353 ug/L
RT: 8.39 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VV014057.D
Acq: 13 Dec 2019 17:23

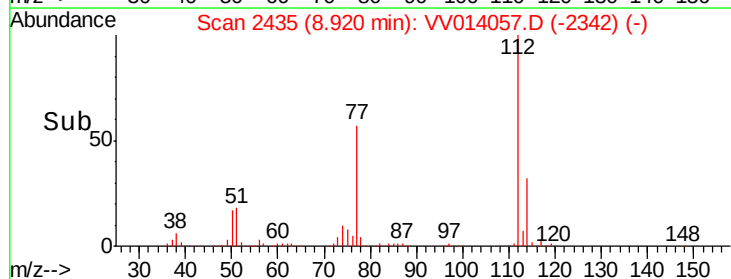
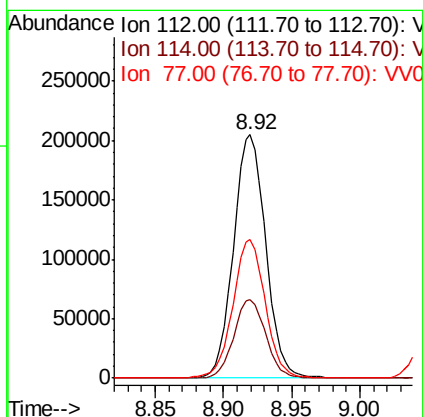
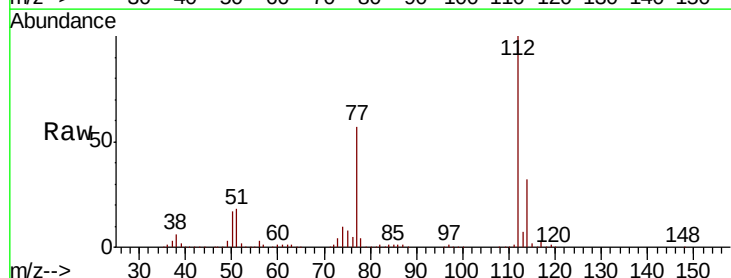
Instrument :
MSVOA_V
ClientSampled :

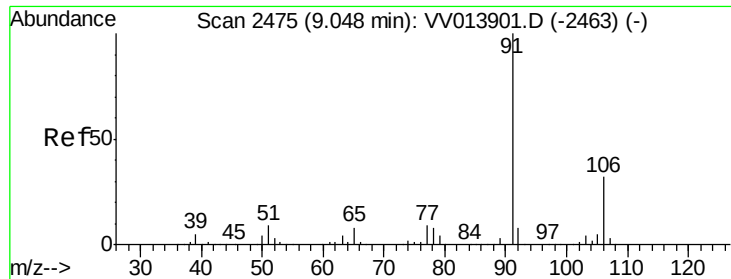
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.5	67.0	124.4
188	4.9	3.9	5.9



#51
Chlorobenzene
Concen: 61.575 ug/L
RT: 8.92 min Scan# 2435
Delta R.T. 0.00 min
Lab File: VV014057.D
Acq: 13 Dec 2019 17:23

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.4	22.8	42.4
77	57.0	44.7	67.1





#52

Ethylbenzene

Concen: 61.222 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

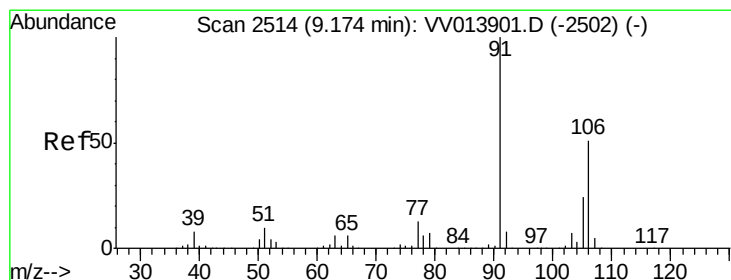
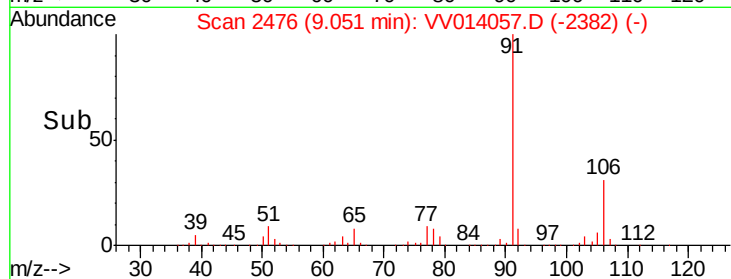
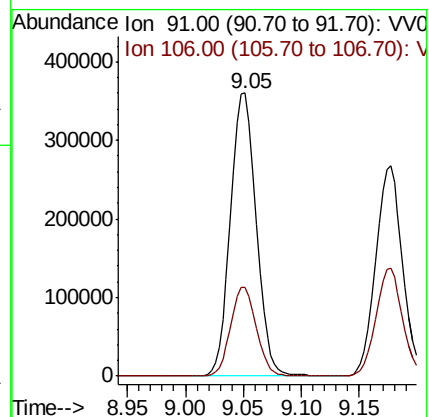
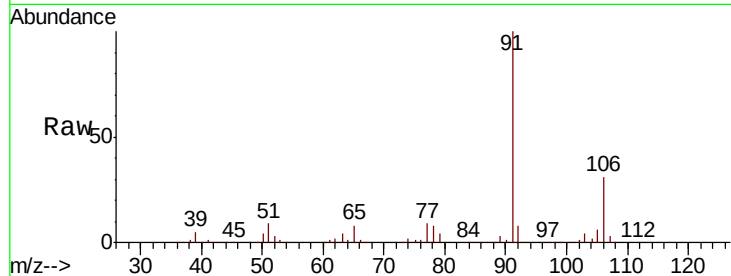
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 554509

Ion Ratio Lower Upper

91 100

106 31.5 22.3 41.5



#53

m,p-Xylene

Concen: 62.824 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV014057.D

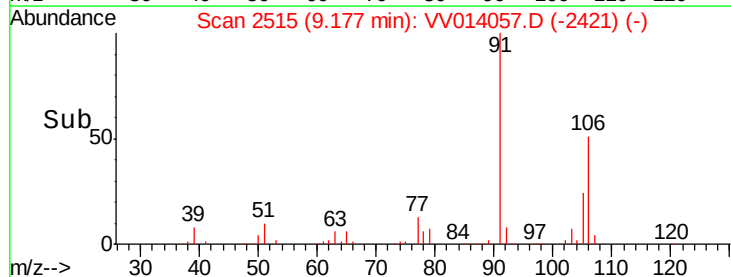
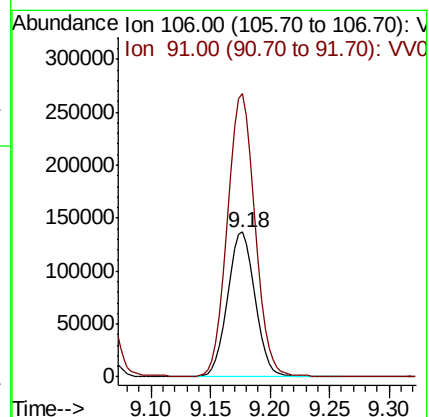
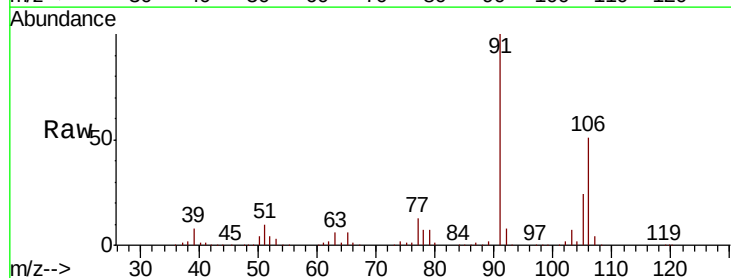
Acq: 13 Dec 2019 17:23

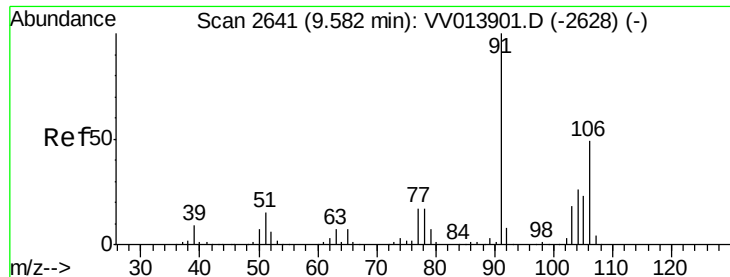
Tgt Ion: 106 Resp: 219511

Ion Ratio Lower Upper

106 100

91 195.6 146.7 272.5





#54

o-Xylene

Concen: 60.025 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

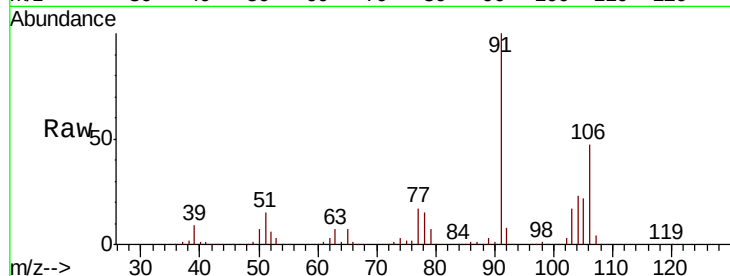
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 208118

Ion Ratio Lower Upper

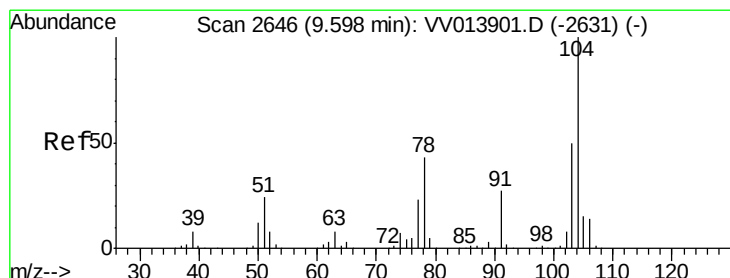
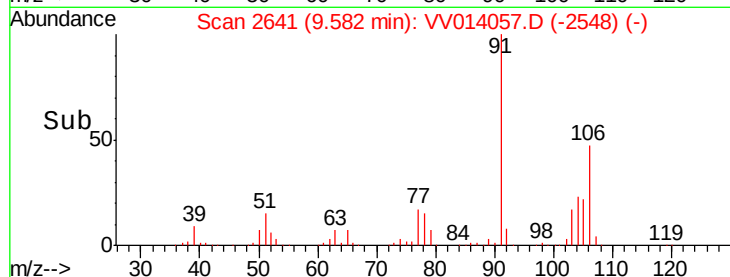
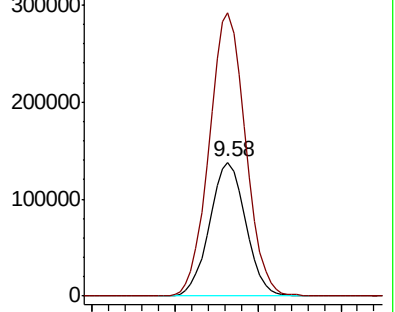
106 100

91 211.7 150.4 279.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 63.733 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. 0.00 min

Lab File: VV014057.D

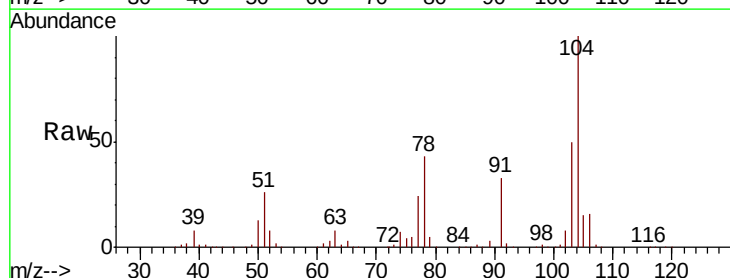
Acq: 13 Dec 2019 17:23

Tgt Ion:104 Resp: 372244

Ion Ratio Lower Upper

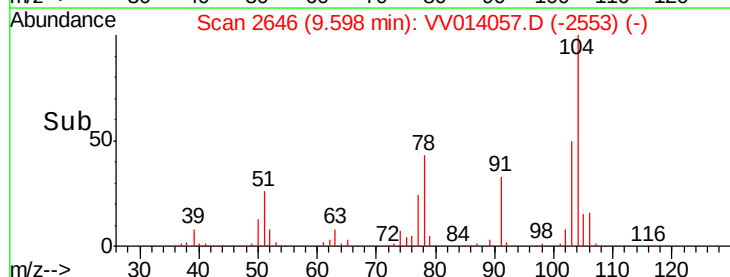
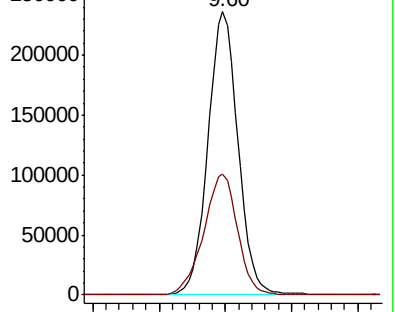
104 100

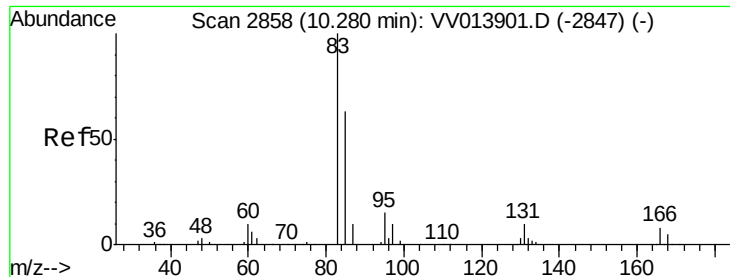
78 42.9 32.0 59.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

1,1,2,2-Tetrachloroethane

Concen: 60.686 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

Instrument :

MSVOA_V

ClientSampled :

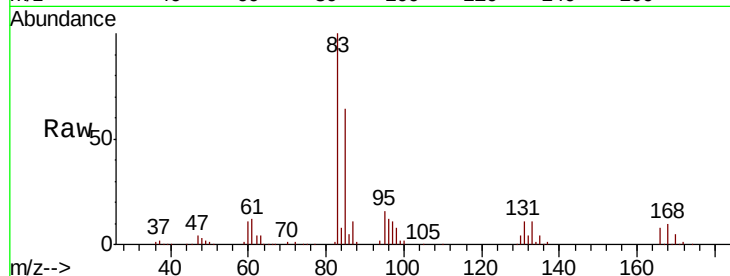
Tot Ion: 83 Resp: 178257

Ion	Ratio	Lower	Upper
83	100		
85	63.7	44.6	82.8
131	10.5	9.3	13.9

83 100

85 63.7 44.6 82.8

131 10.5 9.3 13.9



Abundance

Ion 83.00 (82.70 to 83.70): VV013901.D (-2847) (-)

Ion 85.00 (84.70 to 85.70): VV013901.D (-2847) (-)

Ion 131.00 (130.70 to 131.70): VV013901.D (-2847) (-)

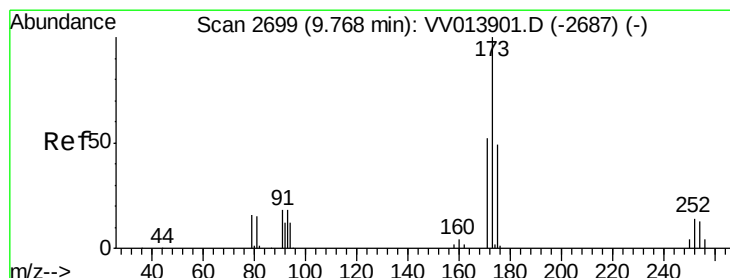
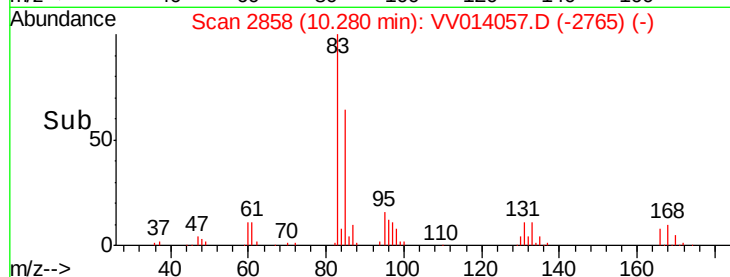
10.28

100000

50000

0

Time--> 10.20 10.25 10.30 10.35



#59

Bromoform

Concen: 51.976 ug/L

RT: 9.77 min Scan# 2699

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

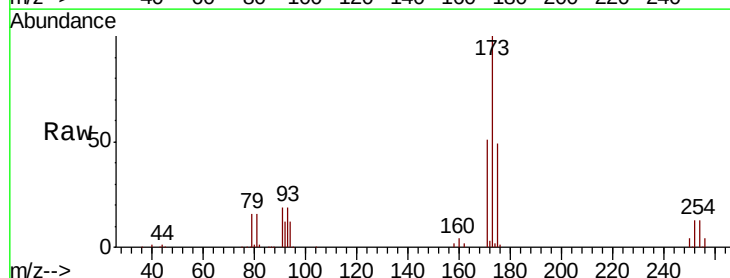
Tgt Ion: 173 Resp: 108546

Ion	Ratio	Lower	Upper
173	100		
175	48.6	38.3	57.5
254	13.3	8.9	13.3

173 100

175 48.6 38.3 57.5

254 13.3 8.9 13.3



Abundance

Ion 173.00 (172.70 to 173.70): VV013901.D (-2687) (-)

Ion 175.00 (174.70 to 175.70): VV013901.D (-2687) (-)

Ion 254.00 (253.70 to 254.70): VV013901.D (-2687) (-)

9.77

80000

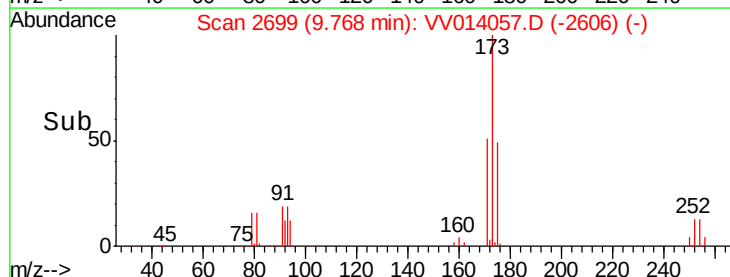
60000

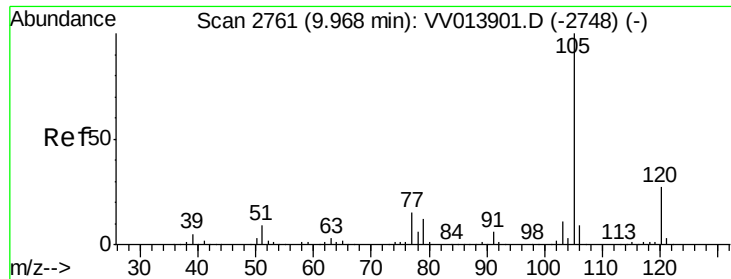
40000

20000

0

Time--> 9.70 9.75 9.80 9.85





#60

Isopropylbenzene

Concen: 57.047 ug/L

RT: 9.97 min Scan# 2761

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

Instrument :

MSVOA_V

ClientSampleId :

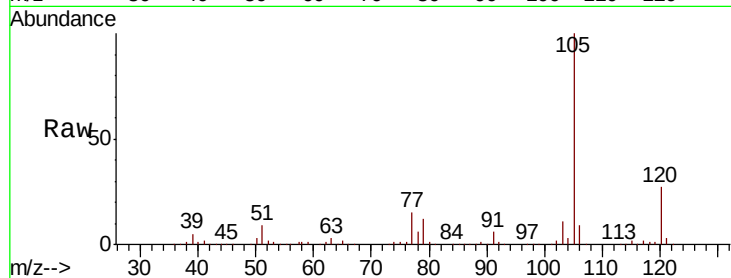
Tot Ion:105 Resp: 555997

Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.0

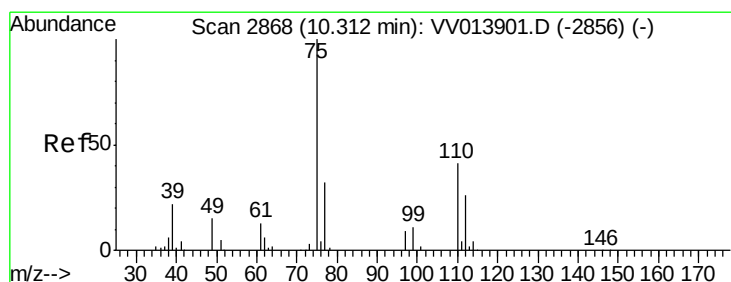
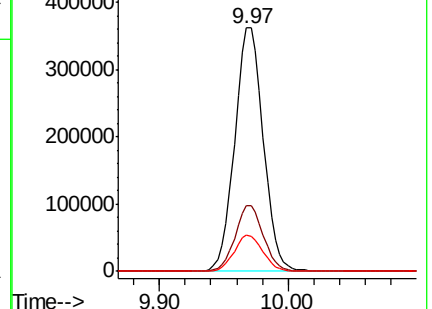
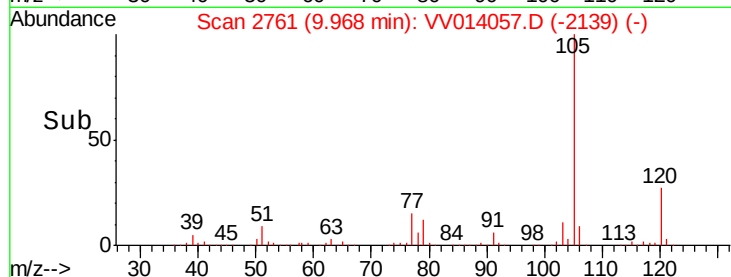
77 15.0 11.6 17.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#61

1,2,3-Trichloropropane

Concen: 65.168 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

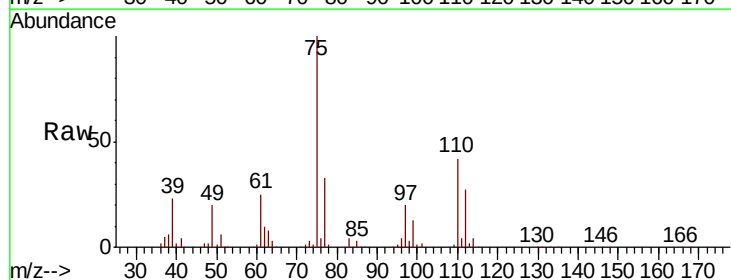
Tgt Ion: 75 Resp: 157550

Ion Ratio Lower Upper

75 100

77 32.6 25.7 38.5

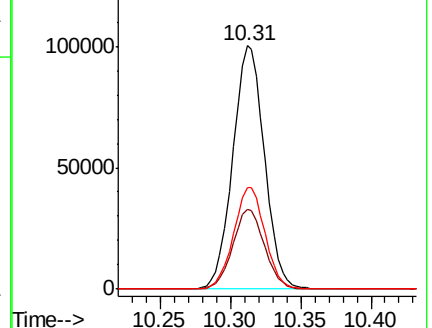
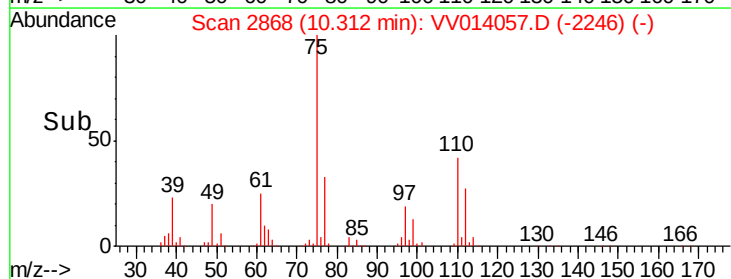
110 41.4 34.2 51.4

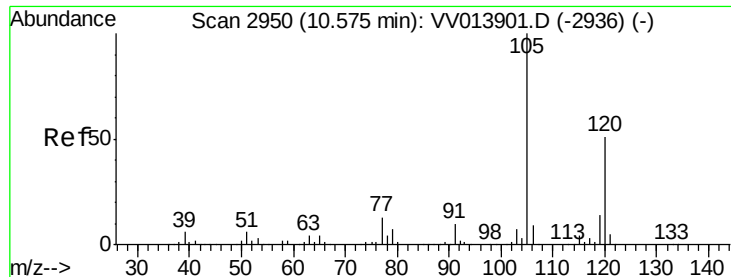


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V





#62

1,3,5-Trimethylbenzene

Concen: 54.973 ug/L

RT: 10.58 min Scan# 2951

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

Instrument :

MSVOA_V

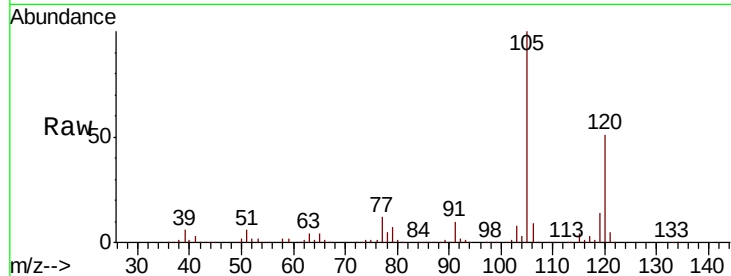
ClientSampled :

Tot Ion:105 Resp: 463185

Ion Ratio Lower Upper

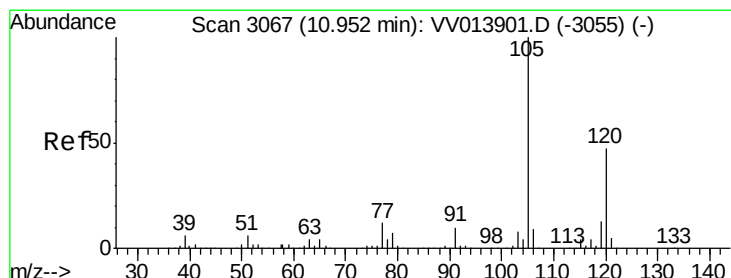
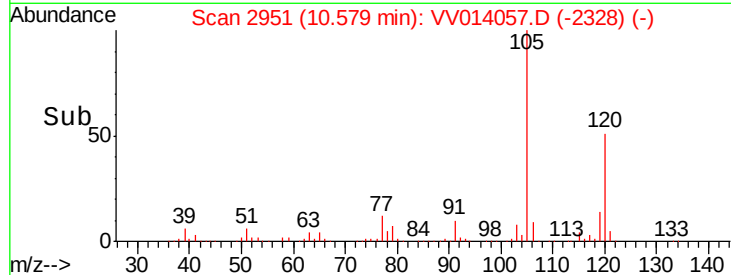
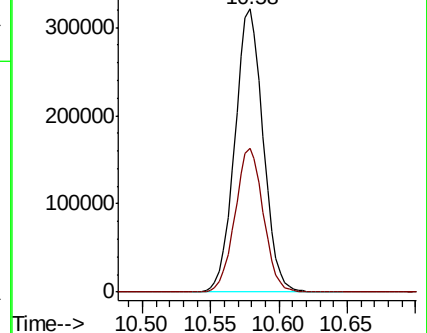
105 100

120 50.9 39.2 58.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 56.409 ug/L

RT: 10.95 min Scan# 3068

Delta R.T. 0.00 min

Lab File: VV014057.D

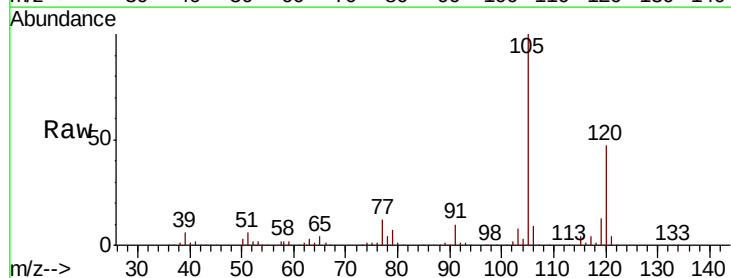
Acq: 13 Dec 2019 17:23

Tgt Ion:105 Resp: 469097

Ion Ratio Lower Upper

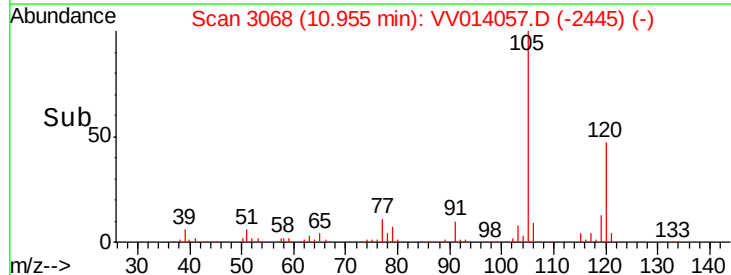
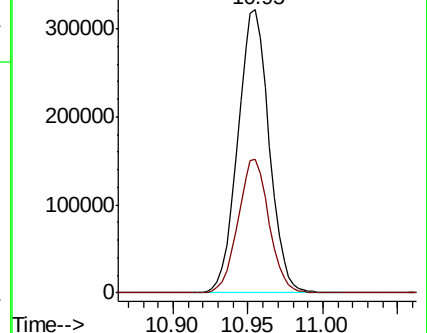
105 100

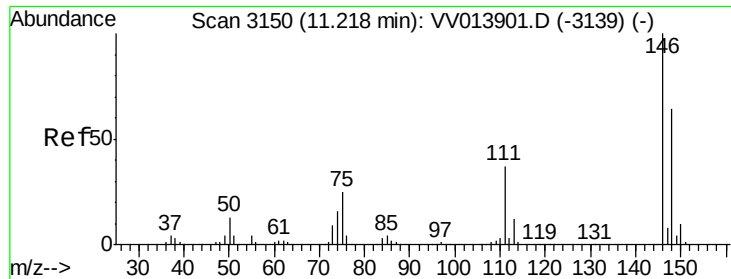
120 46.7 36.7 55.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#64

1,3-Dichlorobenzene

Concen: 59.274 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

Instrument :

MSVOA_V

ClientSampled :

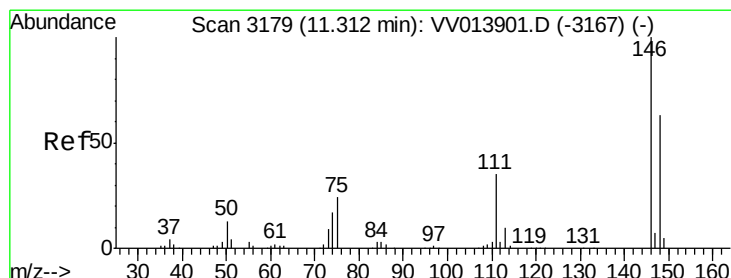
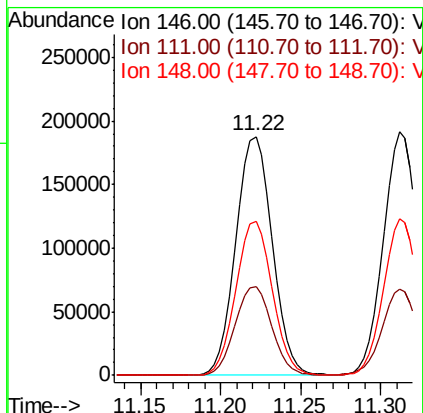
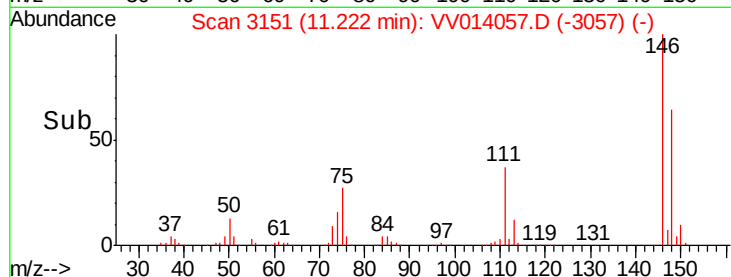
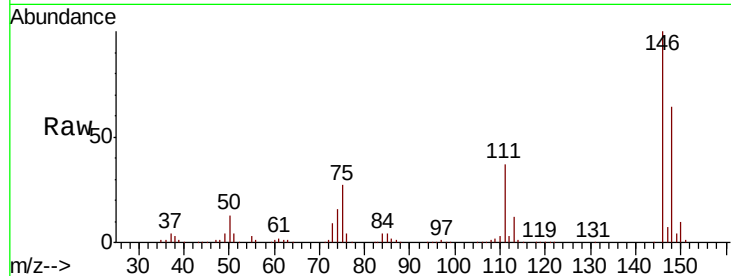
Tot Ion:146 Resp: 291489

Ion Ratio Lower Upper

146 100

111 37.1 26.8 49.8

148 64.4 44.6 82.8



#65

1,4-Dichlorobenzene

Concen: 59.192 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. 0.00 min

Lab File: VV014057.D

Acq: 13 Dec 2019 17:23

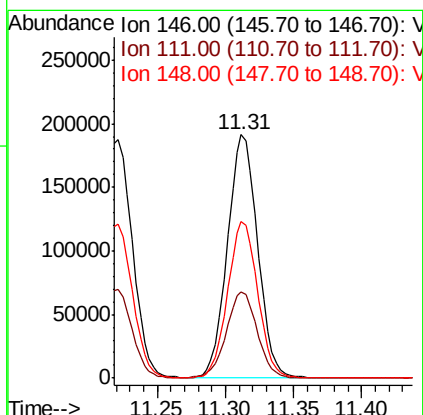
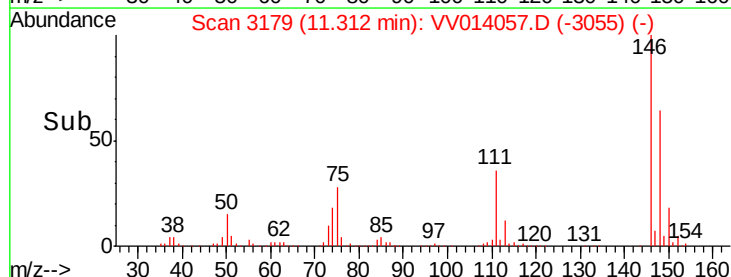
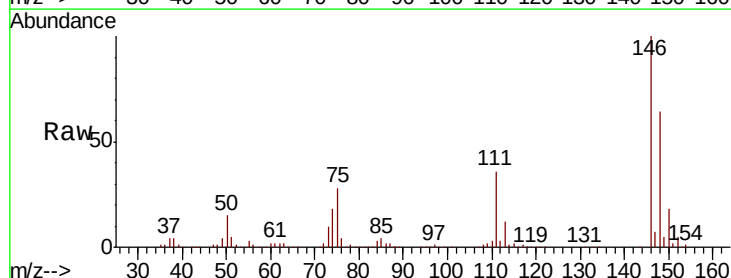
Tgt Ion:146 Resp: 294226

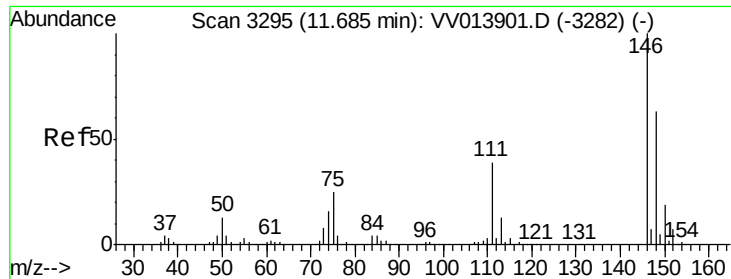
Ion Ratio Lower Upper

146 100

111 35.5 25.8 47.8

148 64.3 45.2 84.0

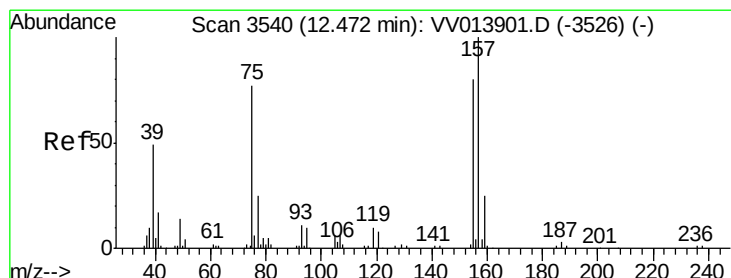
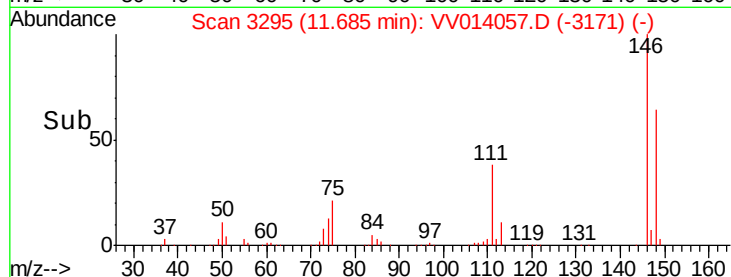
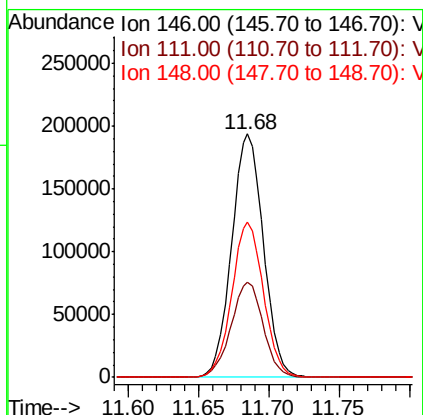
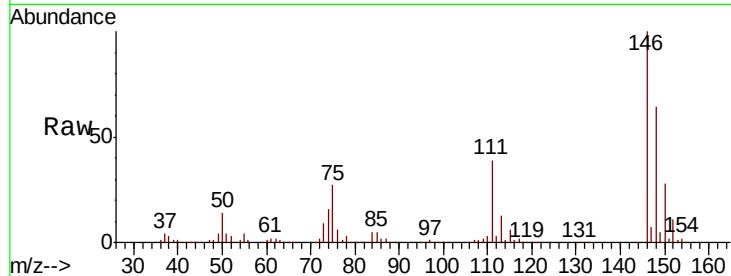




#67
 1,2-Dichlorobenzene
 Concen: 60.950 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV014057.D
 Acq: 13 Dec 2019 17:23

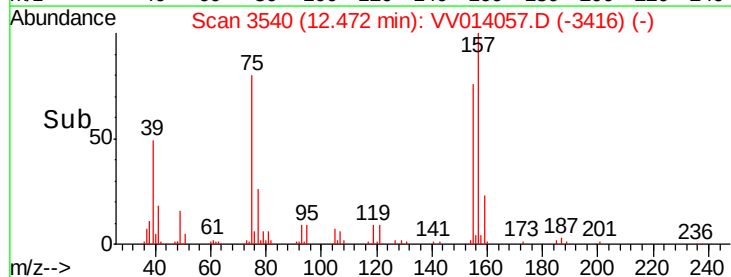
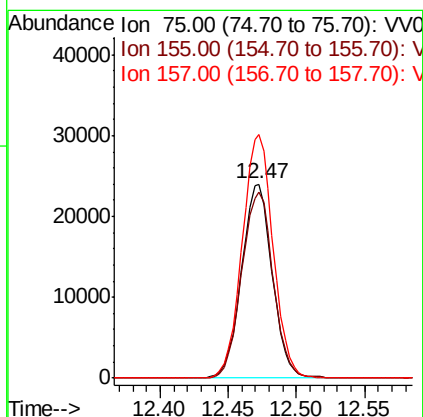
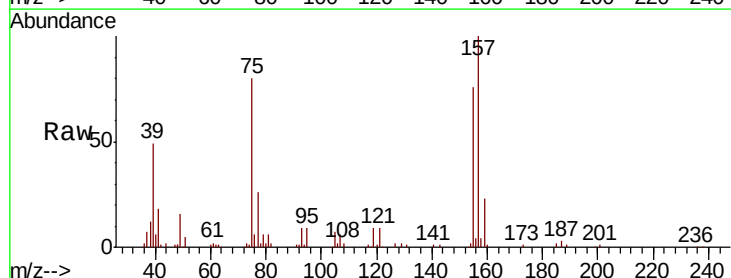
Instrument :
 MSVOA_V
 ClientSampled :

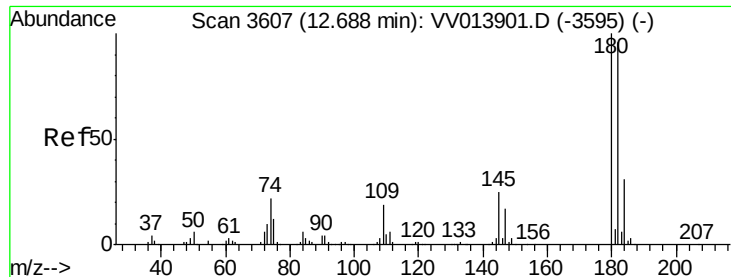
Tot Ion:146 Resp: 305817
 Ion Ratio Lower Upper
 146 100
 111 39.3 32.2 48.2
 148 63.6 53.2 79.8



#68
 1,2-Dibromo-3-chloropropane
 Concen: 46.965 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. 0.00 min
 Lab File: VV014057.D
 Acq: 13 Dec 2019 17:23

Tgt Ion: 75 Resp: 37420
 Ion Ratio Lower Upper
 75 100
 155 95.8 81.2 121.8
 157 125.4 102.3 153.5

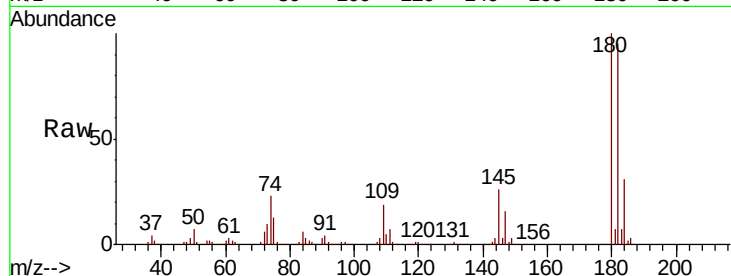




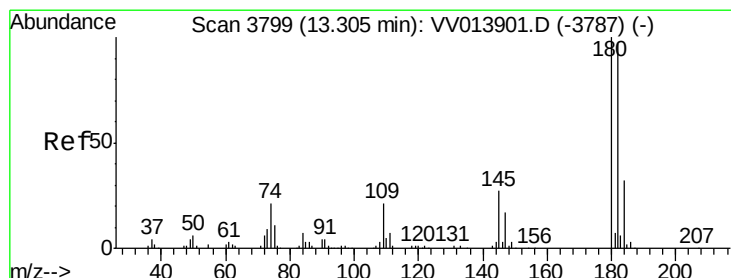
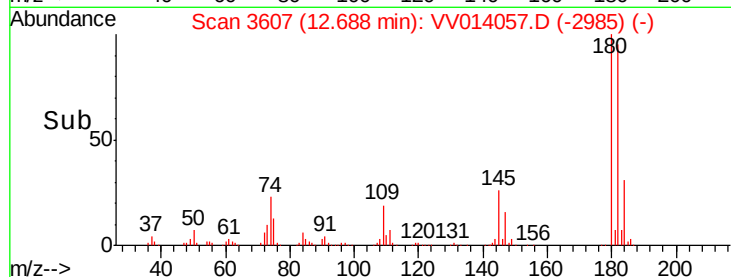
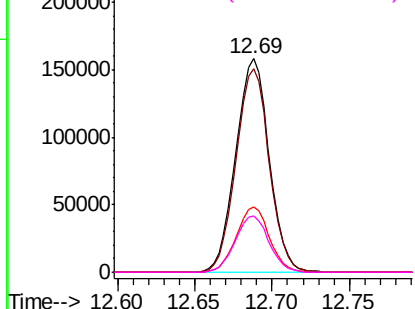
#69
 1,3,5-Trichlorobenzene
 Concen: 59.454 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV014057.D
 Acq: 13 Dec 2019 17:23

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:180	Resp:	237011
Ion Ratio	Lower	Upper
180	100	
182	95.1	76.5 114.7
184	30.2	24.6 36.8
145	26.6	22.5 33.7

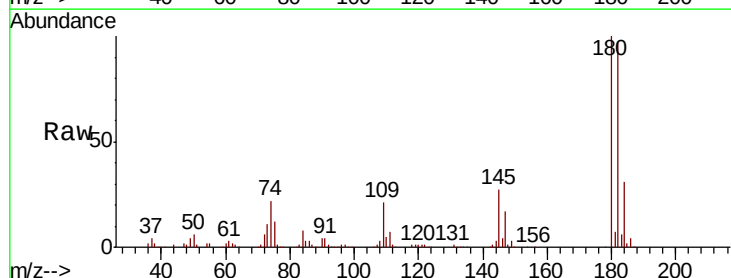


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

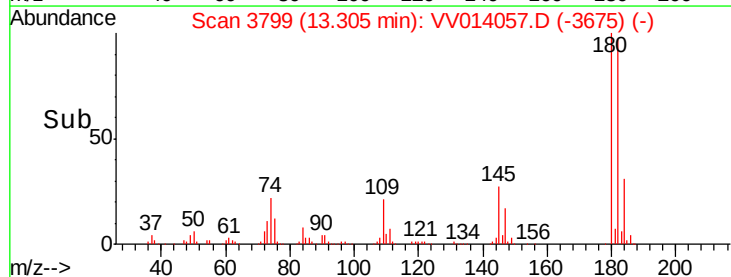
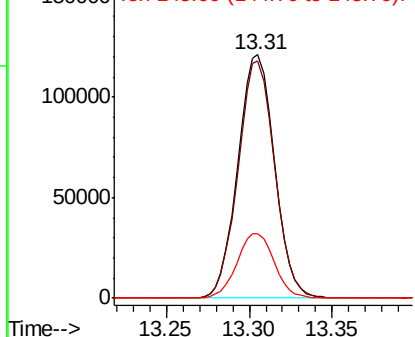


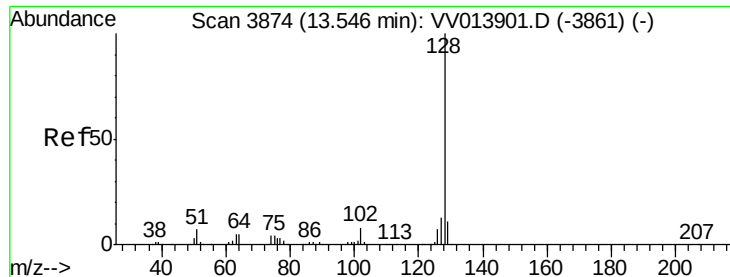
#70
 1,2,4-trichlorobenzene
 Concen: 54.044 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV014057.D
 Acq: 13 Dec 2019 17:23

Tgt Ion:180	Resp:	186802
Ion Ratio	Lower	Upper
180	100	
182	96.9	76.5 114.7
145	27.1	23.3 34.9



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

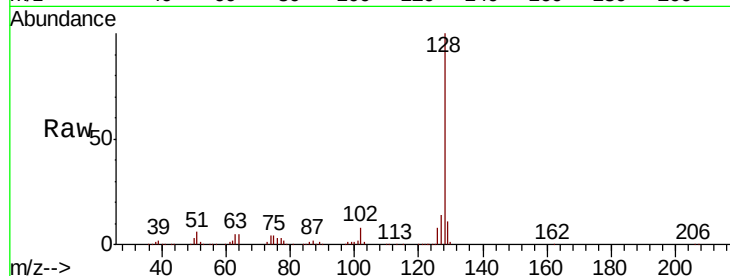




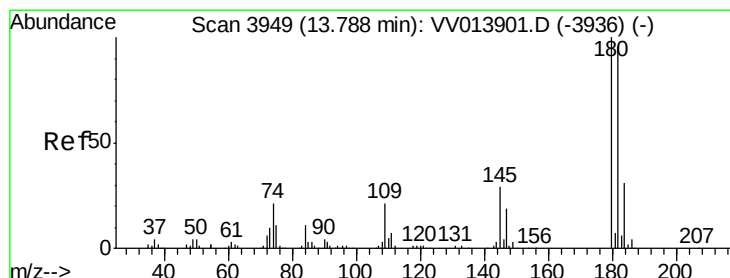
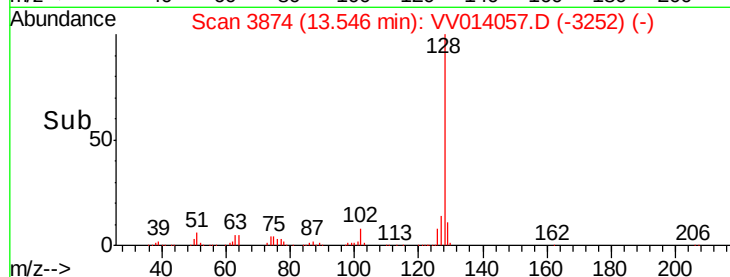
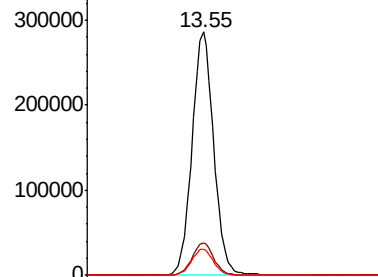
#71
Naphthalene
Concen: 50.549 ug/L
RT: 13.55 min Scan# 3874
Delta R.T. 0.00 min
Lab File: VV014057.D
Acq: 13 Dec 2019 17:23

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:128 Resp: 442826
Ion Ratio Lower Upper
128 100
127 13.3 10.6 15.8
129 10.8 8.6 12.8

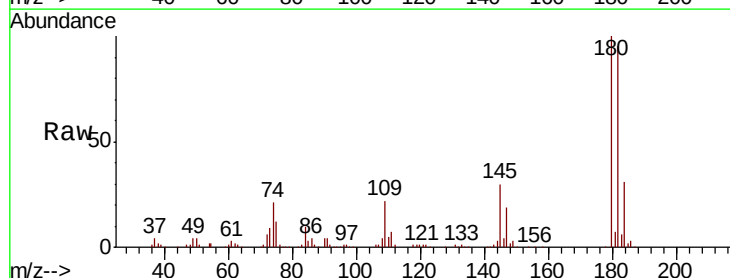


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#72
1,2,3-Trichlorobenzene
Concen: 59.309 ug/L
RT: 13.79 min Scan# 3949
Delta R.T. 0.00 min
Lab File: VV014057.D
Acq: 13 Dec 2019 17:23

Tgt Ion:180 Resp: 206296
Ion Ratio Lower Upper
180 100
182 95.8 77.2 115.8
145 29.1 24.6 36.8



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

