

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV111220\
 Data File : VV019348.D
 Acq On : 12 Nov 2020 12:33
 Operator : SY/MD
 Sample : VSTD10066
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10066

Quant Time: Nov 12 12:56:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM111220WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Nov 12 12:30:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	210600	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	208298	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	130838	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	164261	99.27	ug/L	0.00
7) Chloroethane-d5	1.58	69	130233	99.82	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.12	63	332246	103.70	ug/L	0.00
21) 2-Butanone-d5	3.91	46	173056	175.77	ug/L	0.00
24) Chloroform-d	4.37	84	305737	98.26	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.05	65	210144	97.02	ug/L	0.00
32) Benzene-d6	5.07	84	545749	93.71	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.09	67	150991	87.81	ug/L	0.00
41) Toluene-d8	7.34	98	544131	96.90	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.64	79	97540	97.08	ug/L	0.00
47) 2-Hexanone-d5	8.10	63	131610	180.90	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.23	84	214530	92.21	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.65	152	251907	93.23	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	183232	99.610	ug/L	99
3) Chloromethane	1.25	50	162610	96.301	ug/L	99
5) Vinyl chloride	1.32	62	175896	101.628	ug/L	97
6) Bromomethane	1.53	94	124636	105.470	ug/L	100
8) Chloroethane	1.60	64	109665	101.098	ug/L	100
9) Trichlorofluoromethane	1.76	101	319116	108.812	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	145992	104.446	ug/L	99
12) 1,1-Dichloroethene	2.13	96	148015	107.396	ug/L	90
13) Acetone	2.19	43	136868	148.845	ug/L	99
14) Carbon disulfide	2.31	76	411444	96.404	ug/L	99
15) Methyl Acetate	2.45	43	125133	84.229	ug/L	100
16) Methylene chloride	2.52	84	144259	93.804	ug/L	98
17) trans-1,2-Dichloroethene	2.78	96	144308	99.345	ug/L	98
18) Methyl tert-butyl Ether	2.78	73	464513	95.733	ug/L	100
19) 1,1-Dichloroethane	3.21	63	247852	92.833	ug/L	98
20) cis-1,2-Dichloroethene	3.94	96	152537	96.068	ug/L	100
22) 2-Butanone	3.99	43	172726	173.508	ug/L	100
23) Bromochloromethane	4.27	128	87783	101.179	ug/L	95
25) Chloroform	4.40	83	283558	96.628	ug/L	100
27) 1,2-Dichloroethane	5.15	62	239006	95.211	ug/L	100
29) Cyclohexane	4.70	56	200915	89.837	ug/L	98
30) 1,1,1-Trichloroethane	4.63	97	283282	99.954	ug/L	99
31) Carbon tetrachloride	4.86	117	259911	102.950	ug/L	100
33) Benzene	5.13	78	554285	93.152	ug/L	100
34) Trichloroethene	5.94	95	159658	96.736	ug/L	98
35) Methylcyclohexane	6.15	83	213579	98.248	ug/L	98
37) 1,2-Dichloropropane	6.20	63	130525	88.972	ug/L	100
38) Bromodichloromethane	6.53	83	217223	97.619	ug/L	99
39) cis-1,3-Dichloropropene	7.05	75	238550	97.397	ug/L	98
40) 4-Methyl-2-pentanone	7.24	43	347005	174.676	ug/L	100

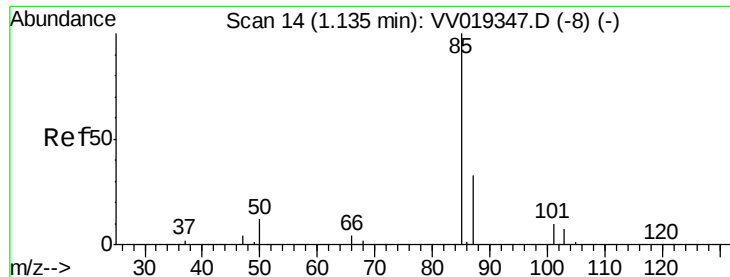
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV111220\
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 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.41	91	637123	97.625	ug/L	100
44) trans-1,3-Dichloropropene	7.67	75	257666	100.566	ug/L	99
45) 1,1,2-Trichloroethane	7.86	97	140695	93.684	ug/L	98
46) Tetrachloroethene	8.00	164	145455	102.588	ug/L	100
48) 2-Hexanone	8.16	43	268354	169.039	ug/L	98
49) Dibromochloromethane	8.27	129	189866	103.377	ug/L	100
50) 1,2-Dibromoethane	8.37	107	158884	98.959	ug/L	95
51) Chlorobenzene	8.90	112	422282	97.840	ug/L	99
52) Ethylbenzene	9.03	91	727477	100.694	ug/L	99
53) m,p-Xylene	9.16	106	280641	102.913	ug/L	99
54) o-xylene	9.56	106	272764	103.640	ug/L	96
55) Styrene	9.58	104	492758	105.841	ug/L	100
56) Isopropylbenzene	9.95	105	744684	105.613	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.26	83	205342	91.580	ug/L	99
59) 1,2,3-Trichloropropane	10.29	75	179640	92.513	ug/L	99
61) Bromoform	9.75	173	156729	97.082	ug/L	99
62) 1,3-Dichlorobenzene	11.20	146	385335	94.356	ug/L	99
63) 1,4-Dichlorobenzene	11.29	146	400161	94.505	ug/L	99
65) 1,2-Dichlorobenzene	11.67	146	387744	95.441	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.45	75	59207	86.995	ug/L	98
67) 1,3,5-Trichlorobenzene	12.67	180	295804	97.998	ug/L	99
68) 1,2,4-trichlorobenzene	13.28	180	282006	100.276	ug/L	99
69) Naphthalene	13.52	128	692088	90.888	ug/L	99
70) 1,2,3-Trichlorobenzene	13.77	180	277460	100.151	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 99.610 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

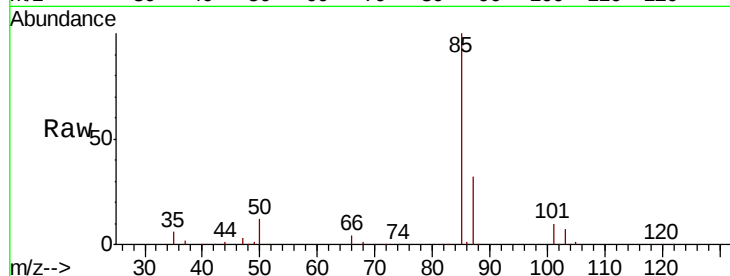
VSTD10066

Tot Ion: 85 Resp: 183232

Ion Ratio Lower Upper

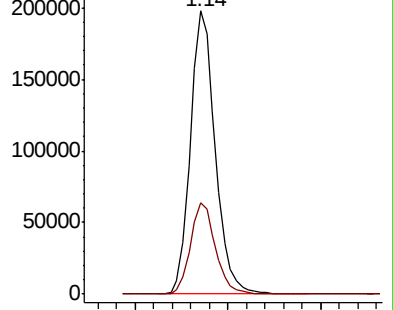
85 100

87 32.5 26.6 40.0

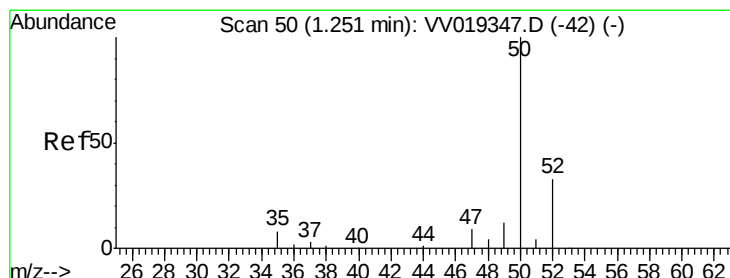
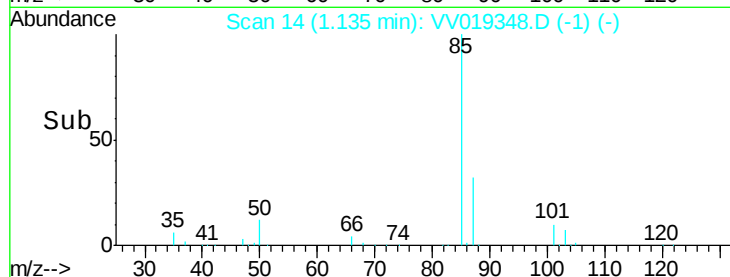


Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



Time-->



#3

Chloromethane

Concen: 96.301 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV019348.D

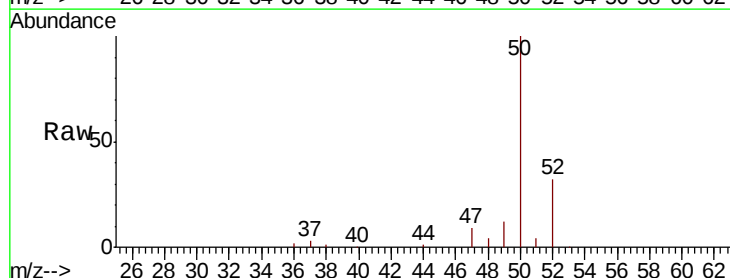
Acq: 12 Nov 2020 12:33

Tgt Ion: 50 Resp: 162610

Ion Ratio Lower Upper

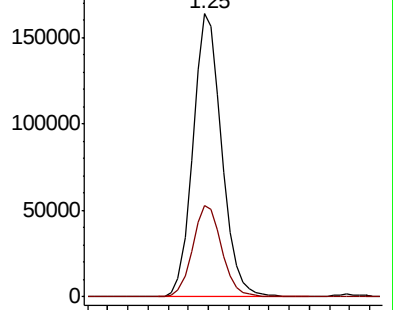
50 100

52 32.4 23.3 43.3

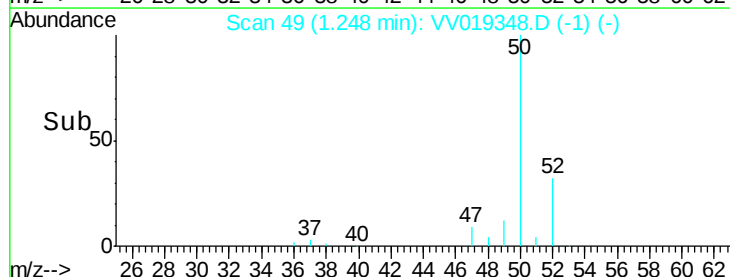


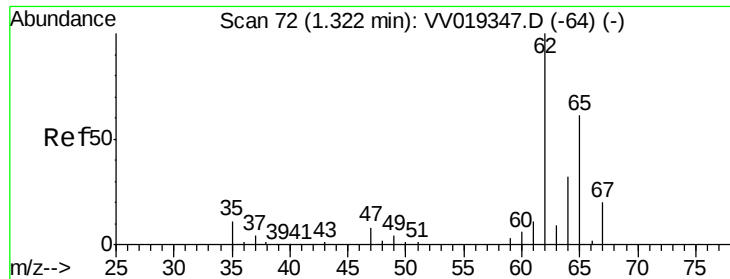
Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0



Time-->





#5

Vinyl chloride

Concen: 101.628 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

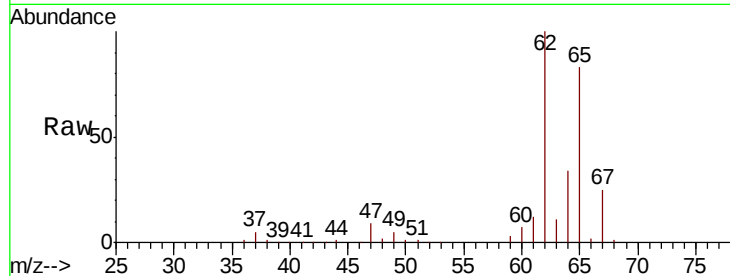
VSTD10066

Tot Ion: 62 Resp: 175896

Ion Ratio Lower Upper

62 100

64 33.8 22.3 41.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

200000

150000

100000

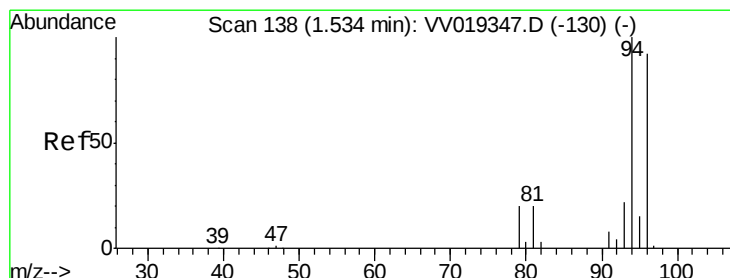
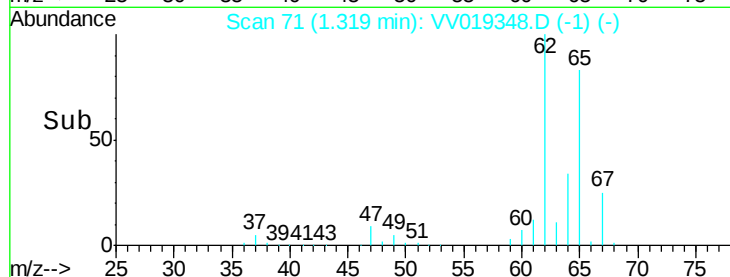
50000

0

1.32

1.30 1.35

Time-->



#6

Bromomethane

Concen: 105.470 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV019348.D

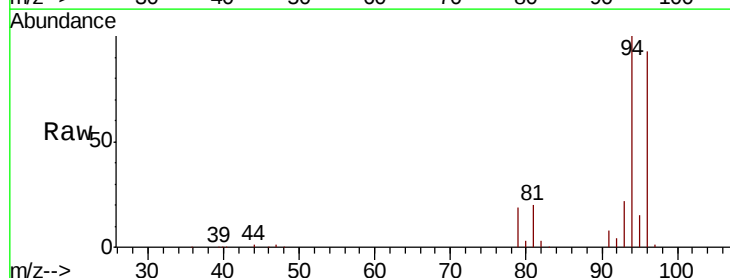
Acq: 12 Nov 2020 12:33

Tgt Ion: 94 Resp: 124636

Ion Ratio Lower Upper

94 100

96 92.7 64.7 120.1



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

120000

100000

80000

60000

40000

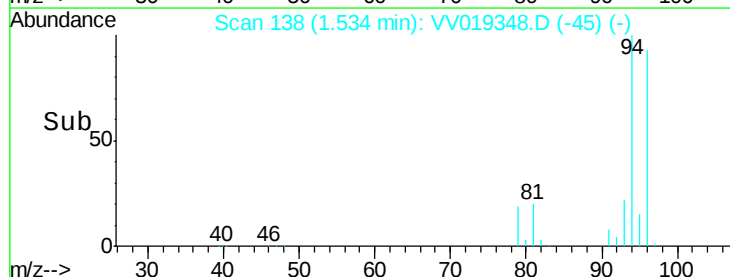
20000

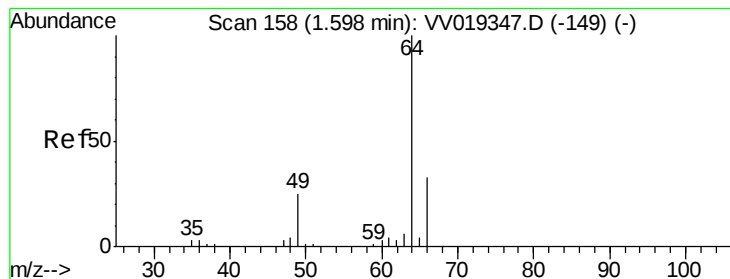
0

1.53

1.50 1.55 1.60

Time-->





#8

Chloroethane

Concen: 101.098 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

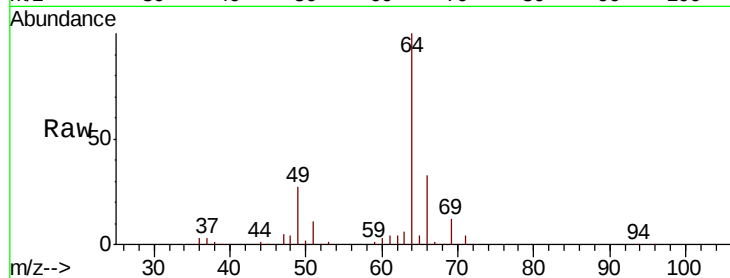
VSTD10066

Tot Ion: 64 Resp: 109665

Ion Ratio Lower Upper

64 100

66 32.5 22.9 42.5



Abundance Ion 64.00 (63.70 to 64.70): VV019347.D (-149) (-)

Ion 66.00 (65.70 to 66.70): VV019347.D (-149) (-)

1.60

100000

80000

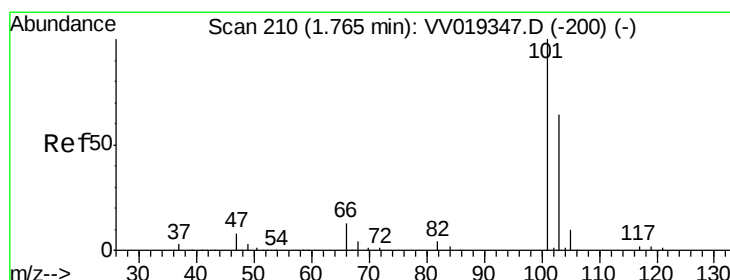
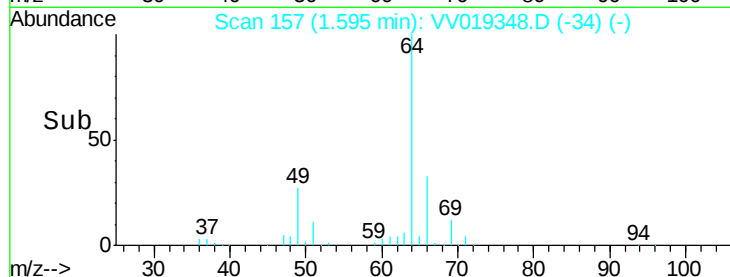
60000

40000

20000

0

Time-->



#9

Trichlorofluoromethane

Concen: 108.812 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV019348.D

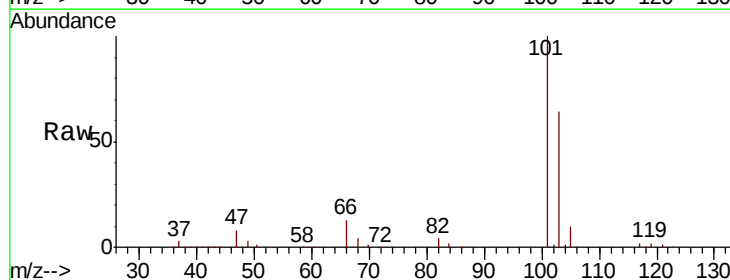
Acq: 12 Nov 2020 12:33

Tgt Ion: 101 Resp: 319116

Ion Ratio Lower Upper

101 100

103 64.8 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VV019347.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV019347.D (-200) (-)

1.76

250000

200000

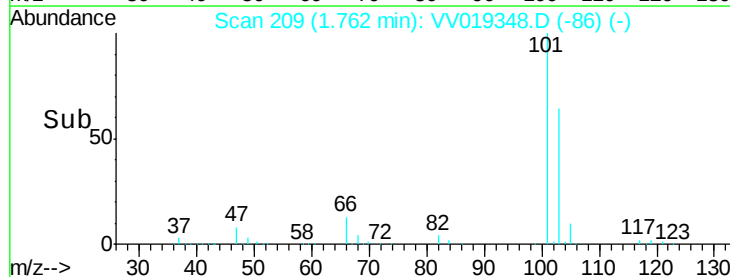
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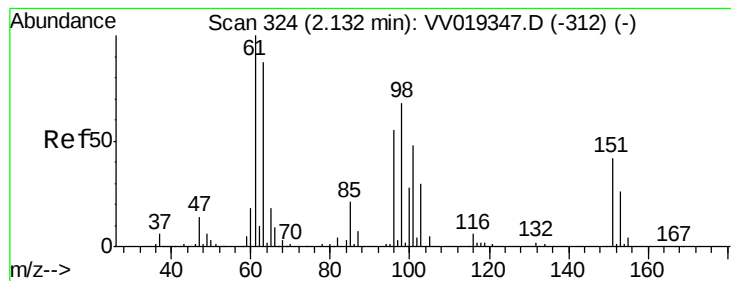
100000

50000

0

Time-->





#10

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

Concen: 104.446 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

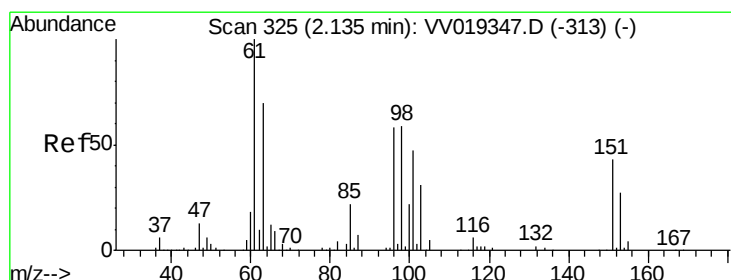
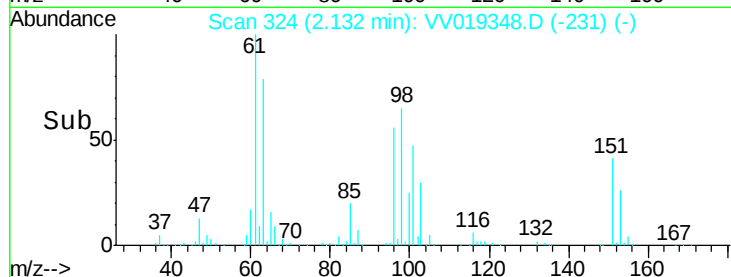
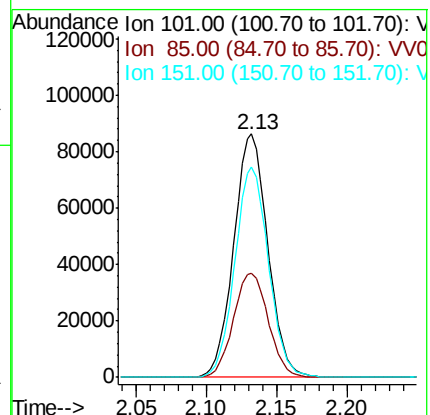
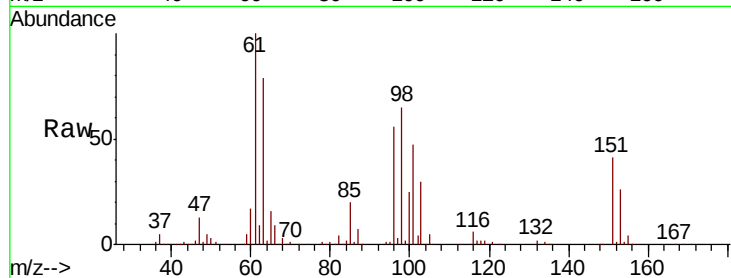
Tot Ion:101 Resp: 145992

Ion Ratio Lower Upper

101 100

85 43.8 35.8 53.6

151 85.6 69.2 103.8



#12

1,1-Dichloroethene

Concen: 107.396 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

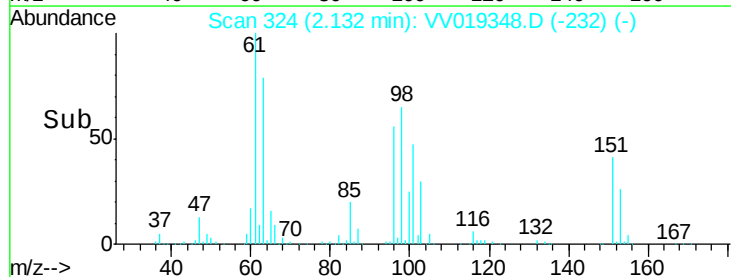
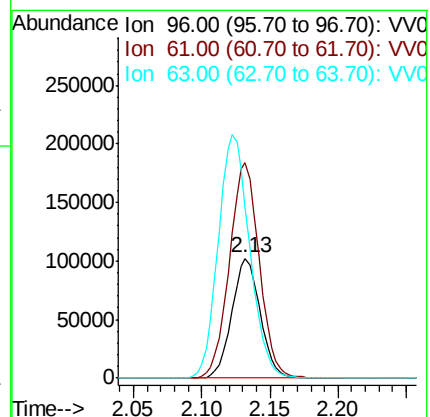
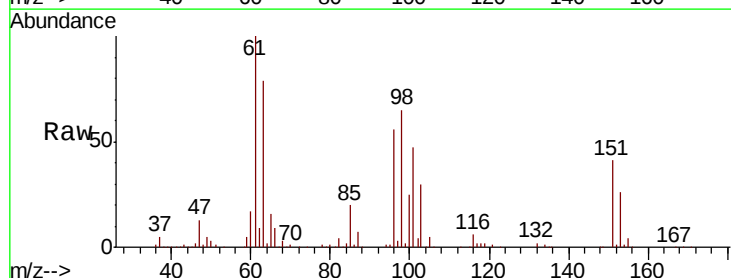
Tgt Ion: 96 Resp: 148015

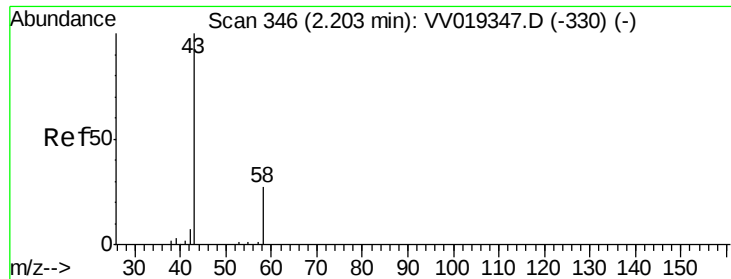
Ion Ratio Lower Upper

96 100

61 180.0 121.0 224.8

63 142.3 86.2 160.0





#13

Acetone

Concen: 148.845 ug/L

RT: 2.19 min Scan# 343

Delta R.T. -0.01 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

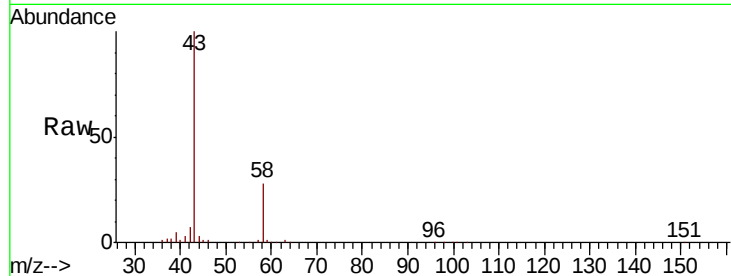
VSTD10066

Tot Ion: 43 Resp: 136868

Ion Ratio Lower Upper

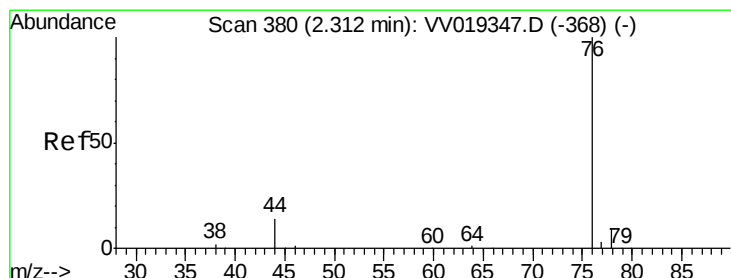
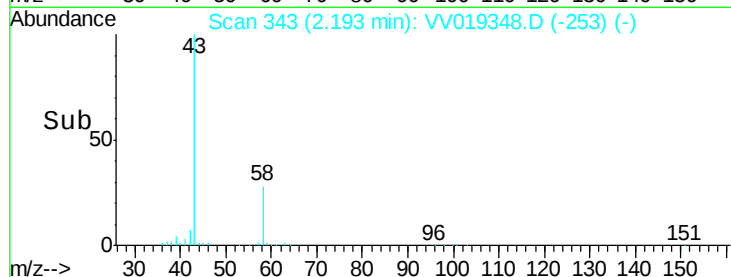
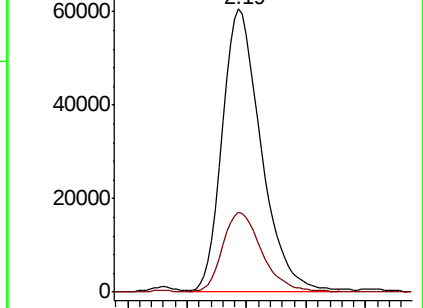
43 100

58 28.4 0.0 55.8



Abundance Ion 43.00 (42.70 to 43.70): VV019347.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV019347.D (-330) (-)



#14

Carbon disulfide

Concen: 96.404 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV019348.D

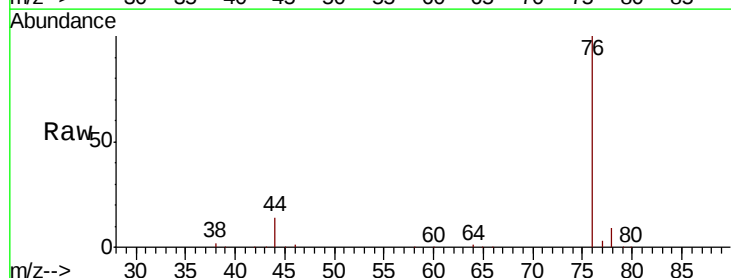
Acq: 12 Nov 2020 12:33

Tgt Ion: 76 Resp: 411444

Ion Ratio Lower Upper

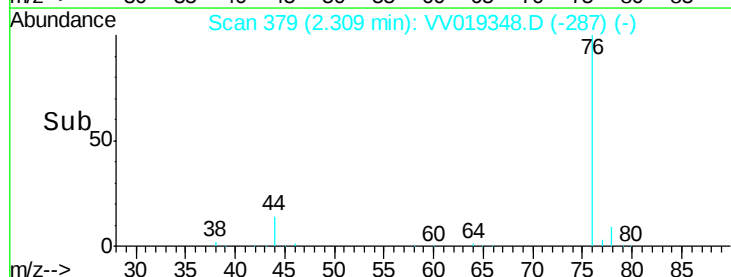
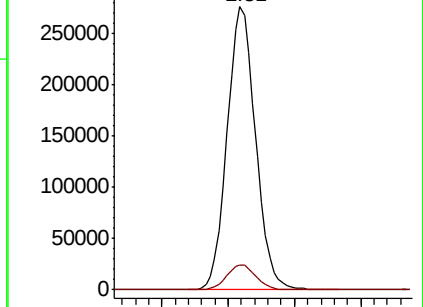
76 100

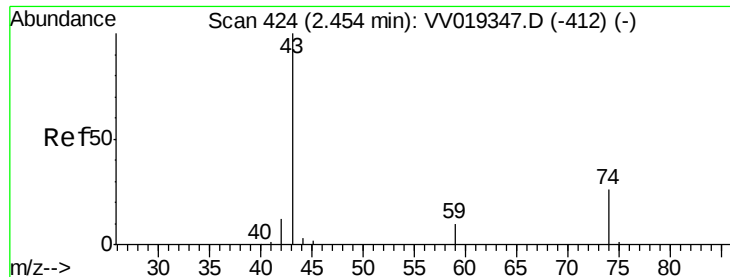
78 8.9 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV019347.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV019347.D (-368) (-)





#15

Methvl Acetate

Concen: 84.229 ug/L

RT: 2.45 min Scan# 422

Delta R.T. -0.01 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

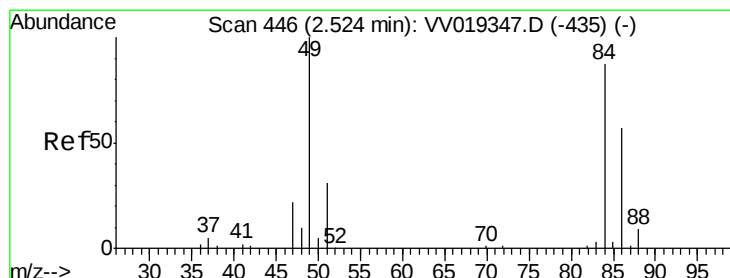
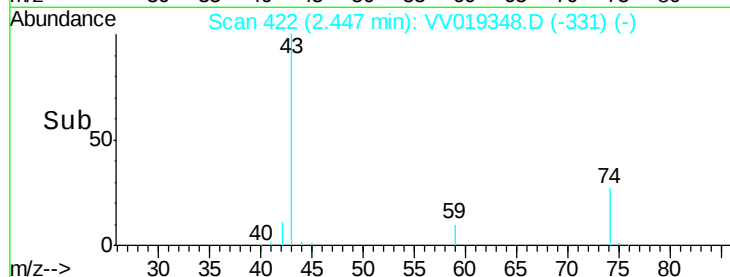
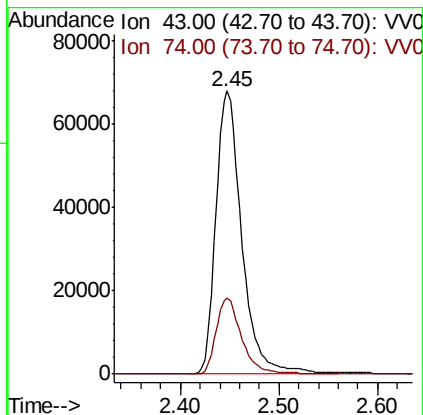
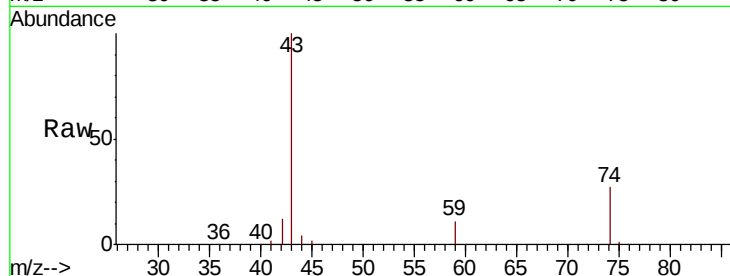
VSTD10066

Tot Ion: 43 Resp: 125133

Ion Ratio Lower Upper

43 100

74 26.2 20.7 31.1



#16

Methylene chloride

Concen: 93.804 ug/L

RT: 2.52 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

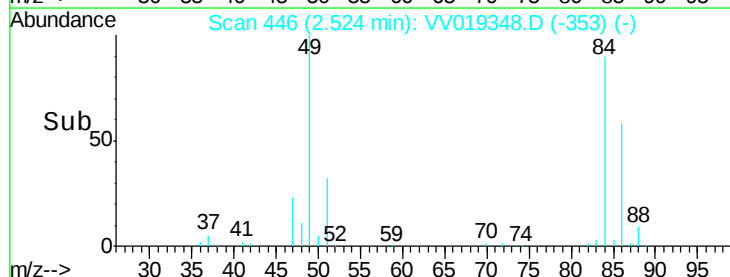
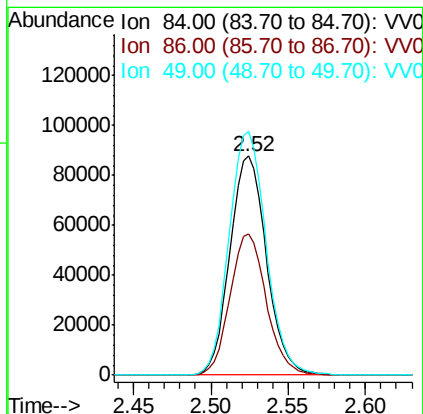
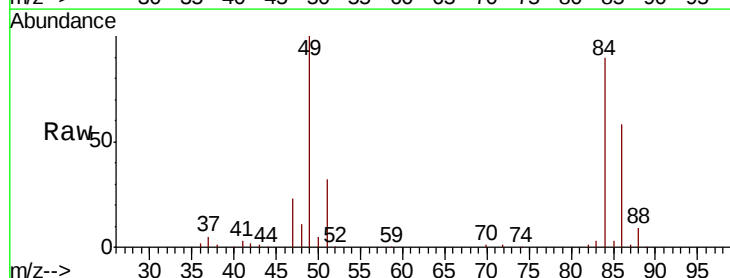
Tgt Ion: 84 Resp: 144259

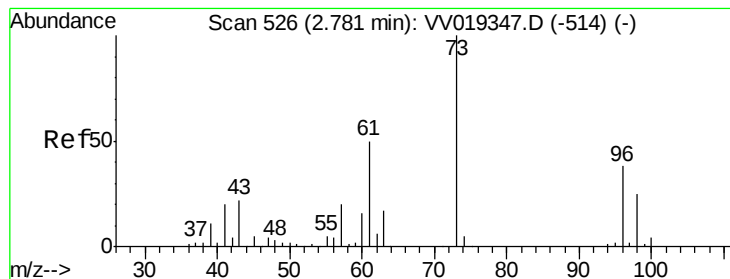
Ion Ratio Lower Upper

84 100

86 64.7 45.6 84.8

49 111.1 80.2 149.0





#17

trans-1,2-Dichloroethene

Concen: 99.345 ug/L

RT: 2.78 min Scan# 525

Delta R.T. -0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

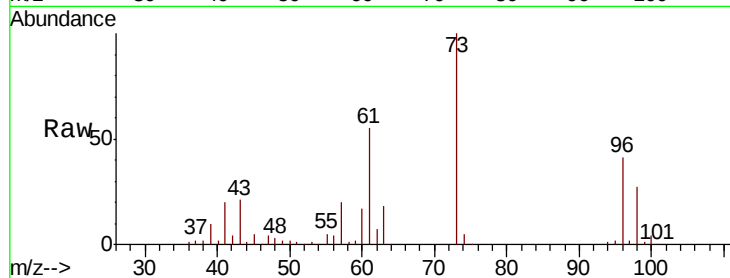
Tot Ion: 96 Resp: 144308

Ion Ratio Lower Upper

96 100

61 134.1 91.8 170.6

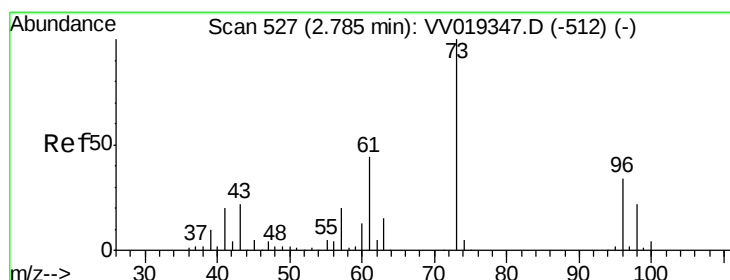
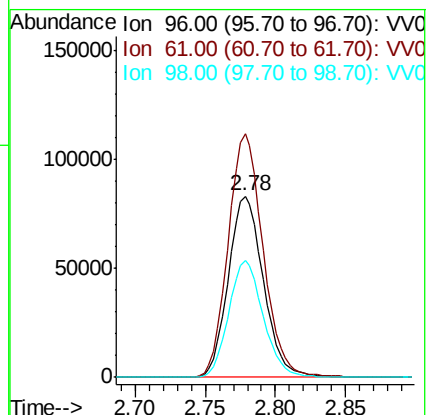
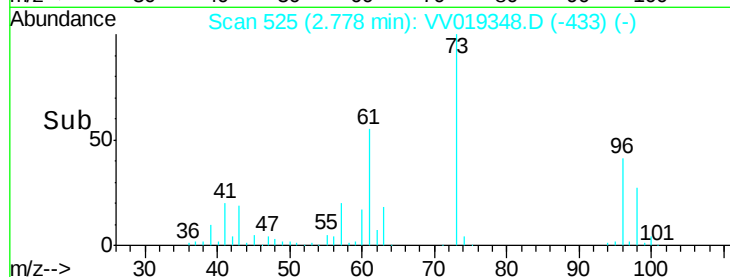
98 64.4 45.1 83.7



Abundance Ion 96.00 (95.70 to 96.70): VV019348.D (-433) (-)

Ion 61.00 (60.70 to 61.70): VV019348.D (-433) (-)

Ion 98.00 (97.70 to 98.70): VV019348.D (-433) (-)



#18

Methyl tert-butyl Ether

Concen: 95.733 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

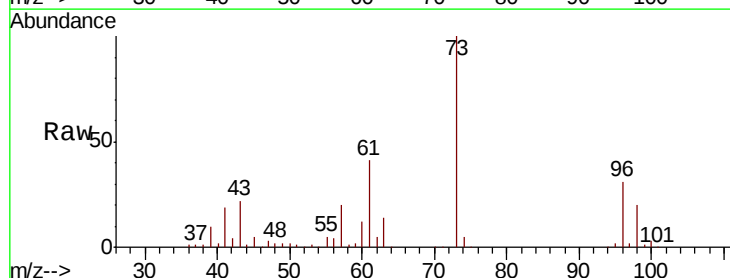
Tgt Ion: 73 Resp: 464513

Ion Ratio Lower Upper

73 100

43 21.2 17.2 25.8

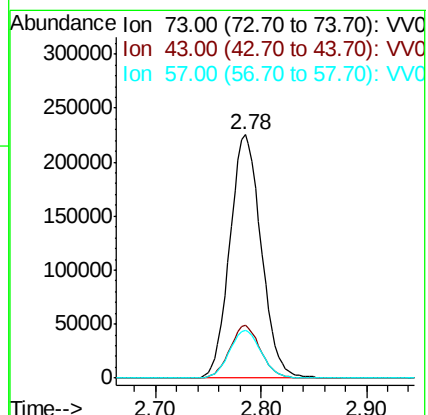
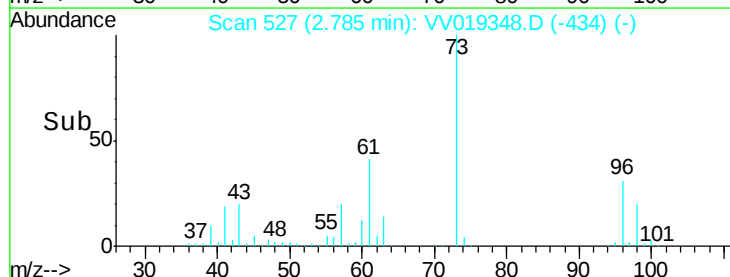
57 19.8 15.9 23.9

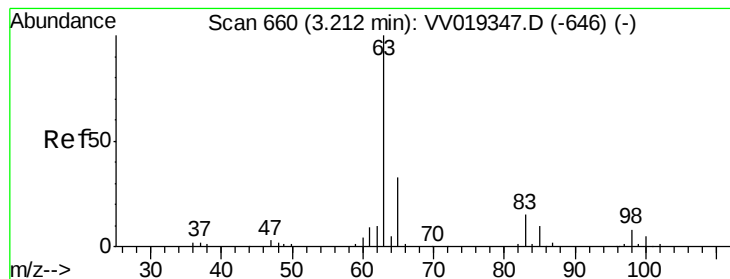


Abundance Ion 73.00 (72.70 to 73.70): VV019348.D (-434) (-)

Ion 43.00 (42.70 to 43.70): VV019348.D (-434) (-)

Ion 57.00 (56.70 to 57.70): VV019348.D (-434) (-)





#19

1,1-Dichloroethane

Concen: 92.833 ug/L

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

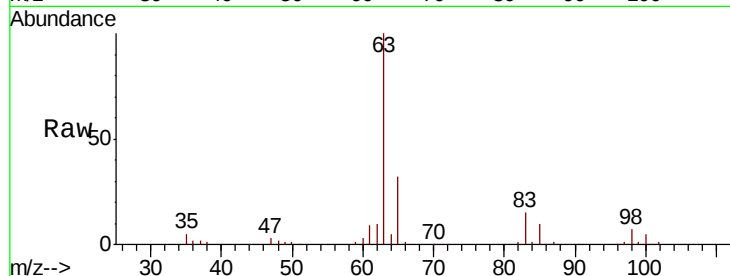
Tot Ion: 63 Resp: 247852

Ion Ratio Lower Upper

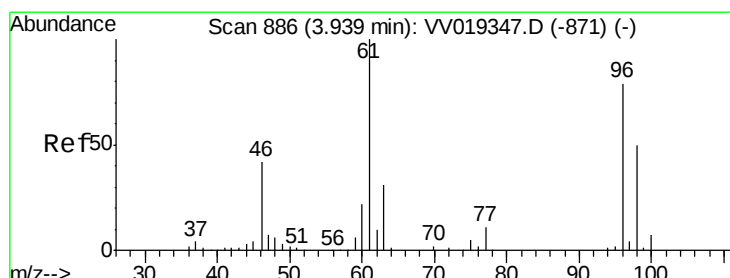
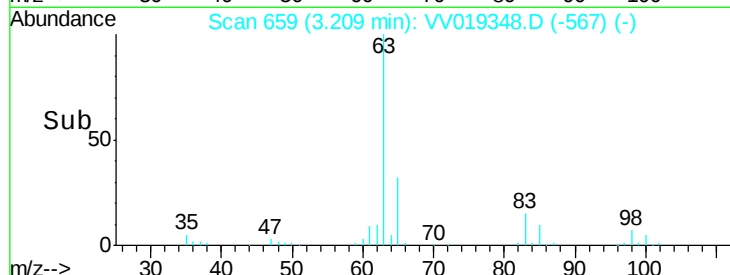
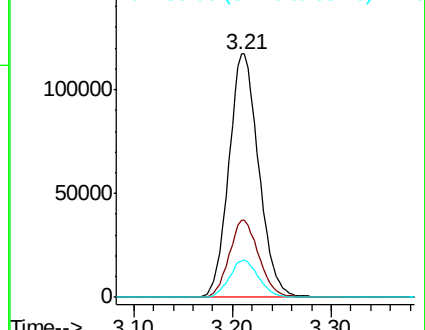
63 100

65 31.7 23.0 42.8

83 15.1 10.7 19.9



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 65.00 (64.70 to 65.70): VV0
Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 96.068 ug/L

RT: 3.94 min Scan# 885

Delta R.T. -0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

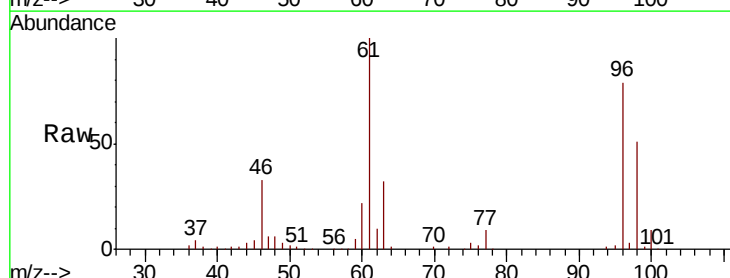
Tgt Ion: 96 Resp: 152537

Ion Ratio Lower Upper

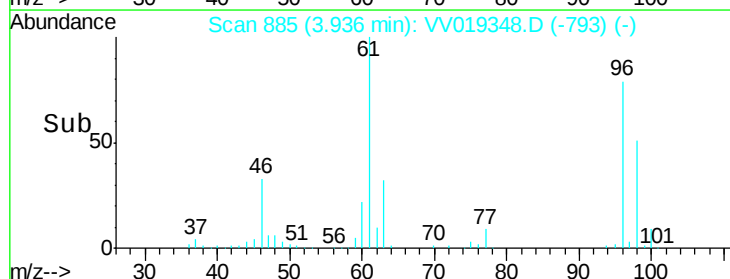
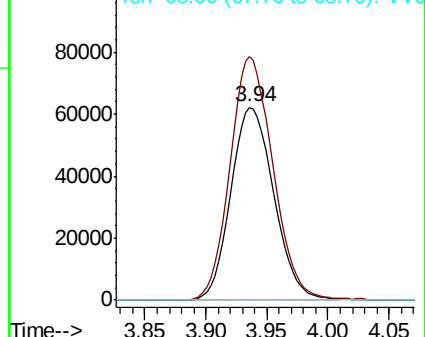
96 100

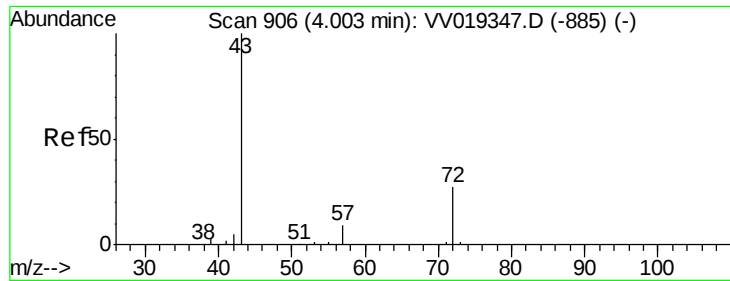
61 126.2 88.2 163.8

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 173.508 ug/L

RT: 3.99 min Scan# 903

Delta R.T. -0.01 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

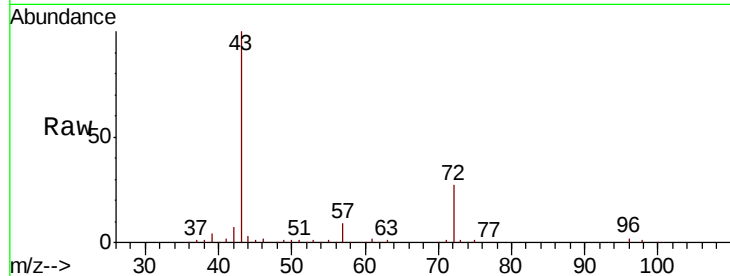
VSTD10066

Tot Ion: 43 Resp: 172726

Ion Ratio Lower Upper

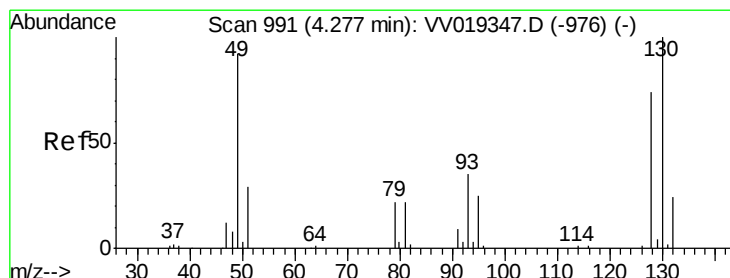
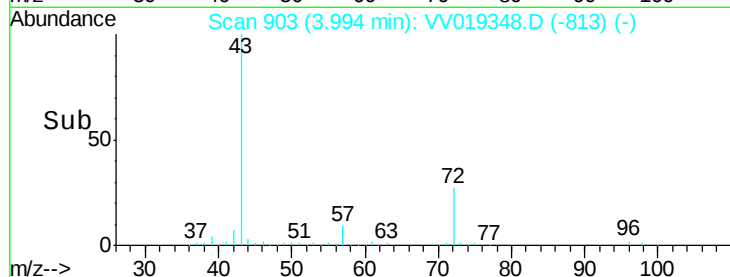
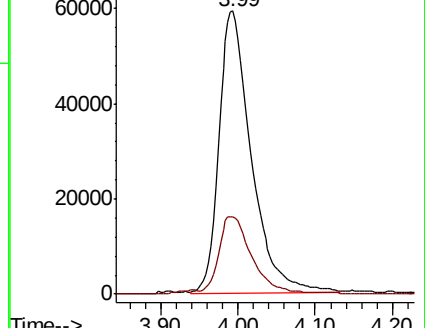
43 100

72 26.3 13.1 39.3



Abundance Ion 43.00 (42.70 to 43.70): VV019347.D (-885) (-)

Ion 72.00 (71.70 to 72.70): VV019347.D (-885) (-)



#23

Bromochloromethane

Concen: 101.179 ug/L

RT: 4.27 min Scan# 990

Delta R.T. -0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Tgt Ion: 128 Resp: 87783

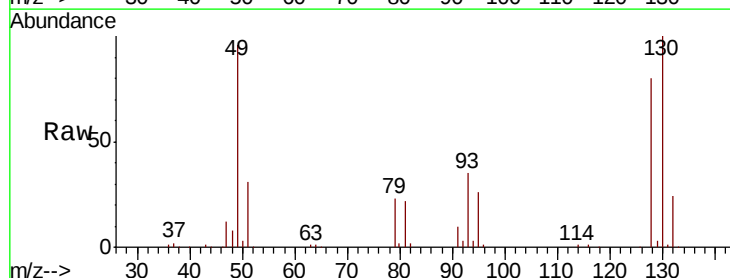
Ion Ratio Lower Upper

128 100

49 119.3 86.2 160.0

130 124.7 94.0 174.6

51 38.4 30.6 46.0

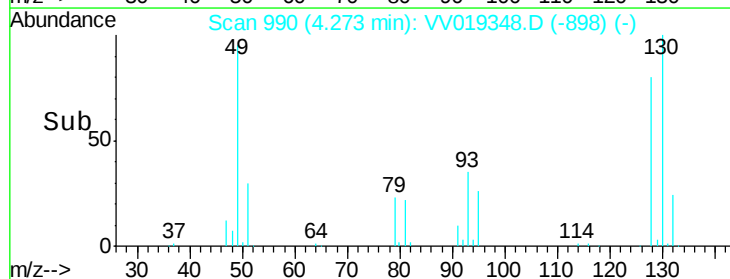
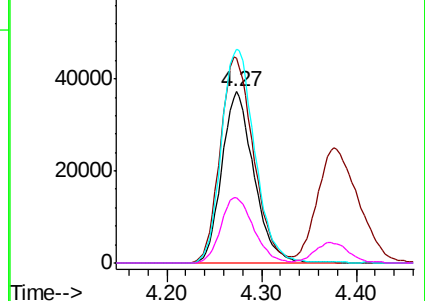


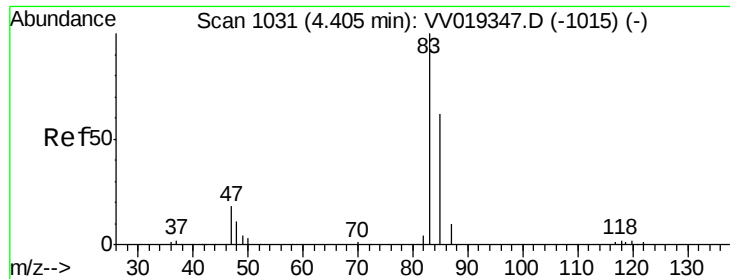
Abundance Ion 128.00 (127.70 to 128.70): VV019347.D (-976) (-)

Ion 49.00 (48.70 to 49.70): VV019347.D (-976) (-)

Ion 130.00 (129.70 to 130.70): VV019347.D (-976) (-)

Ion 51.00 (50.70 to 51.70): VV019347.D (-976) (-)

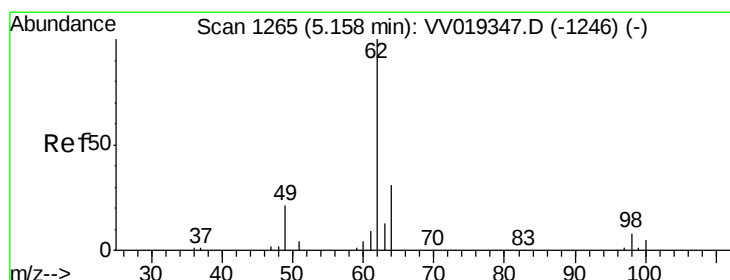
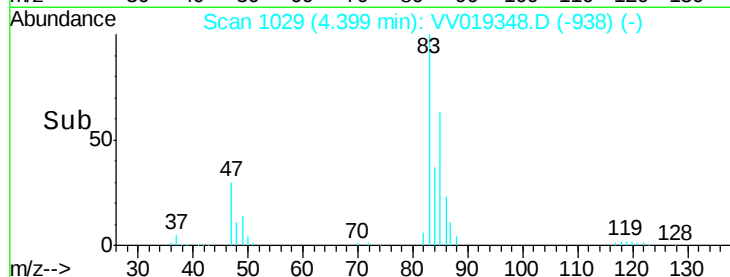
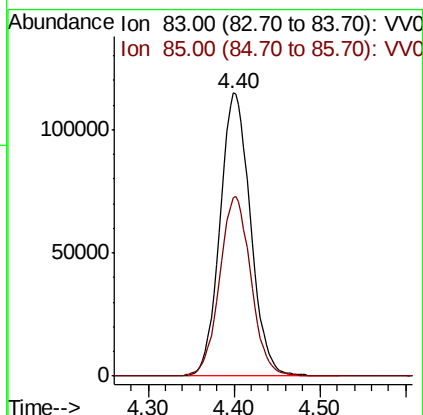
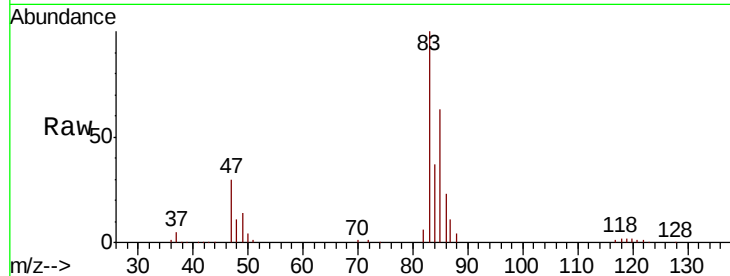




#25
Chloroform
Concen: 96.628 ug/L
RT: 4.40 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VV019348.D
Acq: 12 Nov 2020 12:33

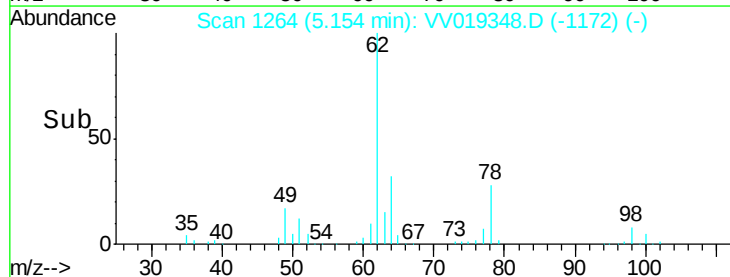
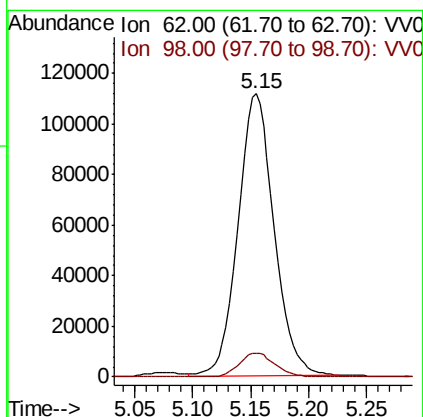
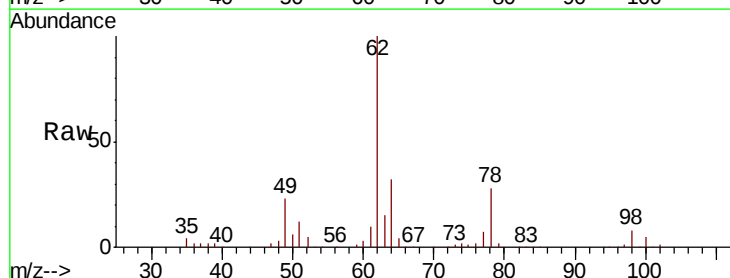
Instrument :
MSVOA_V
ClientSampleId :
VSTD10066

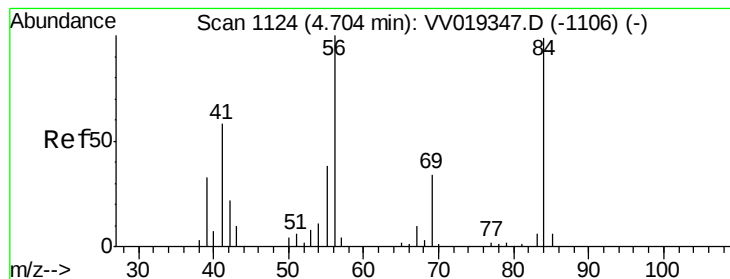
Tot Ion: 83 Resp: 283558
Ion Ratio Lower Upper
83 100
85 63.0 44.0 81.8



#27
1,2-Dichloroethane
Concen: 95.211 ug/L
RT: 5.15 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VV019348.D
Acq: 12 Nov 2020 12:33

Tgt Ion: 62 Resp: 239006
Ion Ratio Lower Upper
62 100
98 8.5 6.7 10.1





#29

Cyclohexane

Concen: 89.837 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

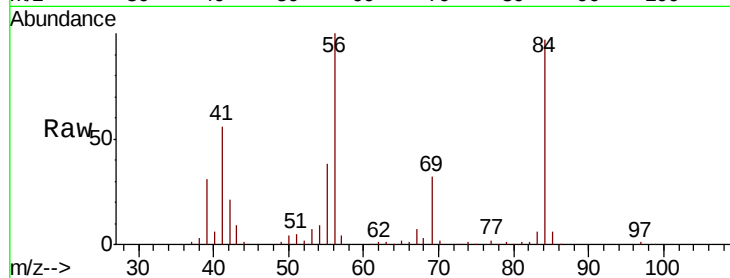
Tot Ion: 56 Resp: 200915

Ion Ratio Lower Upper

56 100

69 32.2 26.7 40.1

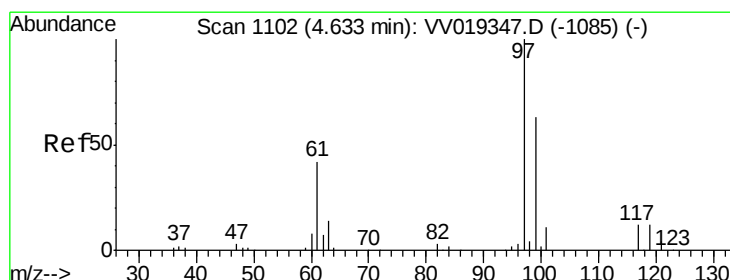
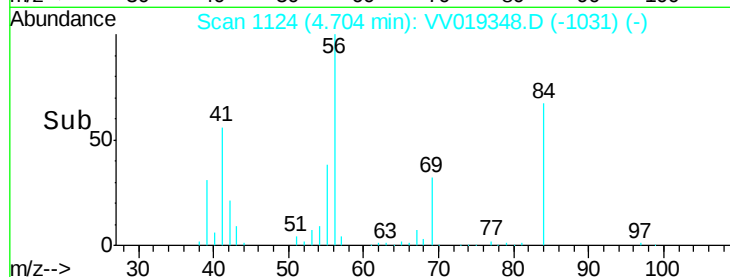
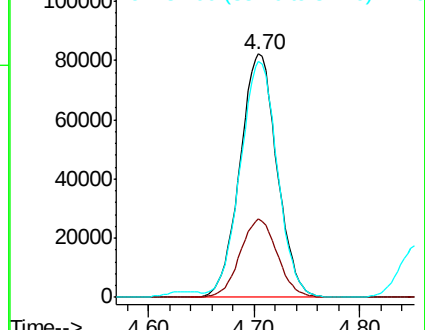
84 97.0 79.5 119.3



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: 99.954 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

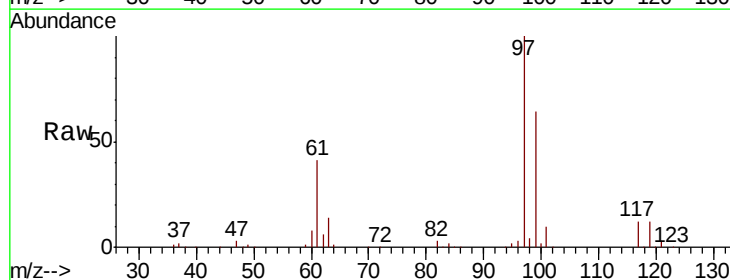
Tgt Ion: 97 Resp: 283282

Ion Ratio Lower Upper

97 100

99 64.6 51.0 76.6

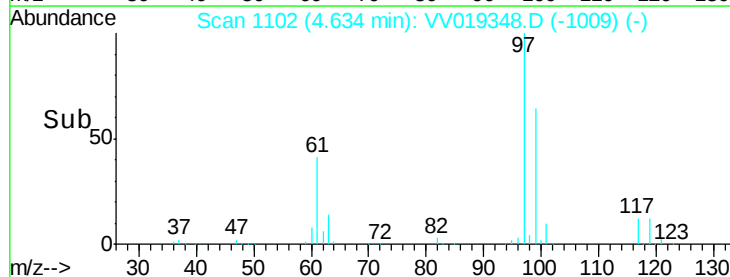
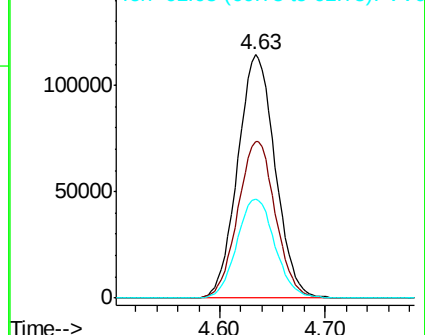
61 41.4 33.2 49.8

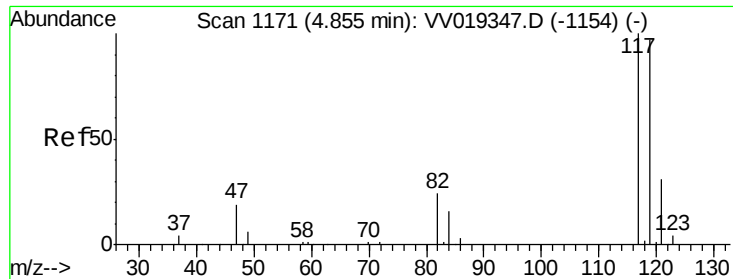


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 102.950 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

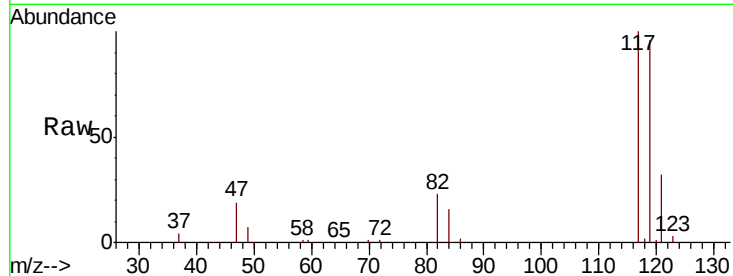
VSTD10066

Tot Ion:117 Resp: 259911

Ion Ratio Lower Upper

117 100

119 96.1 77.0 115.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

4.86

120000

100000

80000

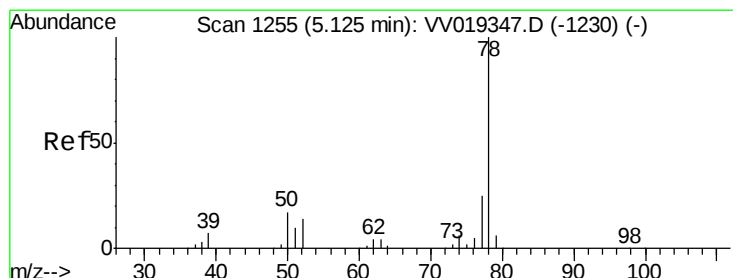
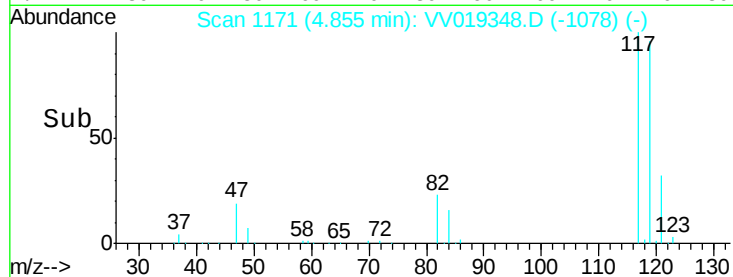
60000

40000

20000

0

Time-->



#33

Benzene

Concen: 93.152 ug/L

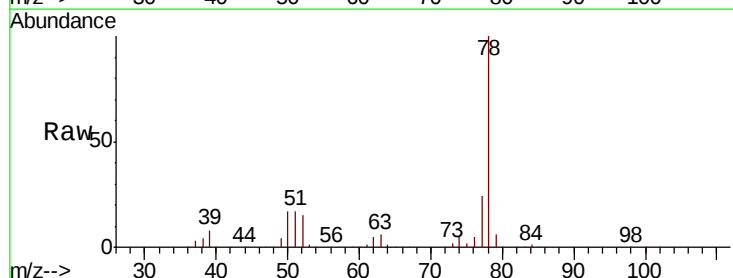
RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Tgt Ion: 78 Resp: 554285



Abundance Ion 78.00 (77.70 to 78.70): VV0

300000

250000

200000

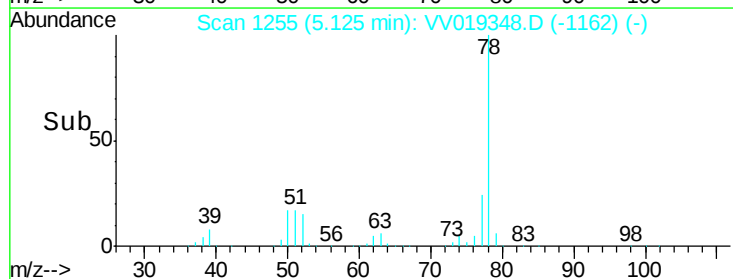
150000

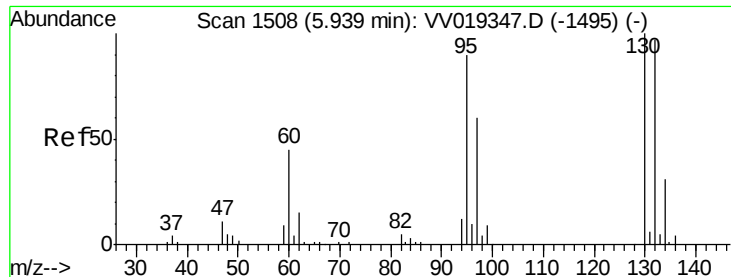
100000

50000

0

Time-->





#34

Trichloroethene

Concen: 96.736 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

Tot Ion: 95 Resp: 159658

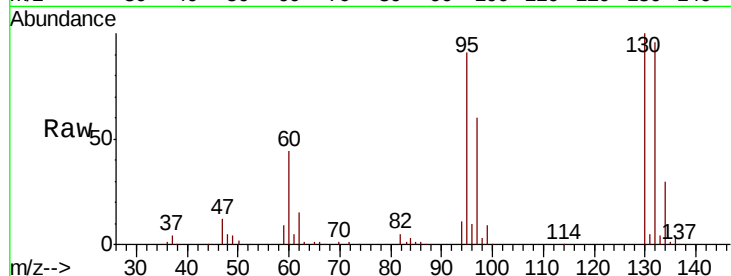
Ion Ratio Lower Upper

95 100

97 65.5 46.8 86.8

132 105.8 75.5 140.3

130 109.9 77.7 144.3

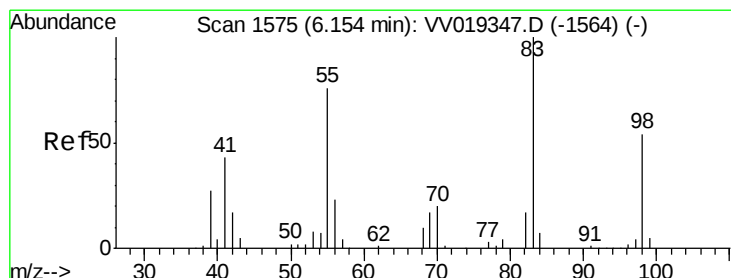
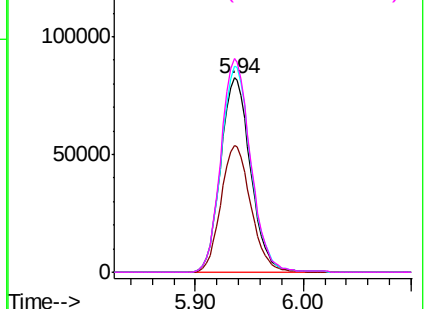
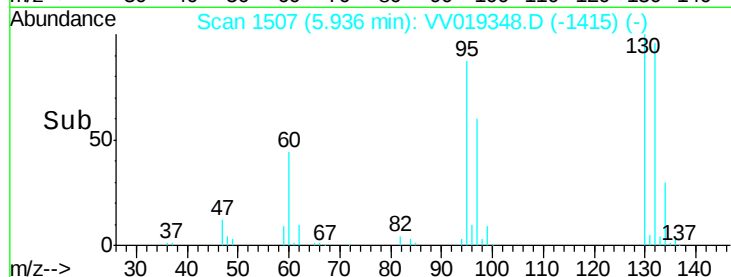


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 98.248 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

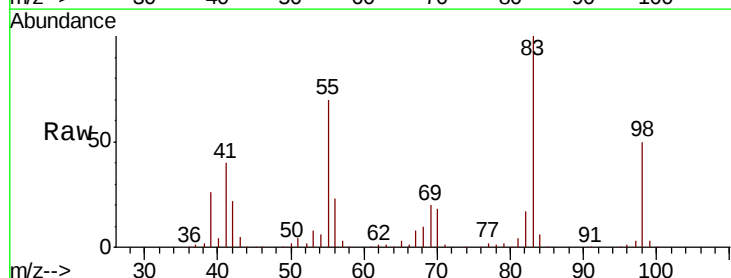
Tgt Ion: 83 Resp: 213579

Ion Ratio Lower Upper

83 100

55 72.2 58.6 88.0

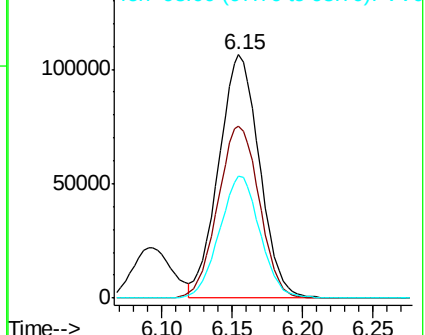
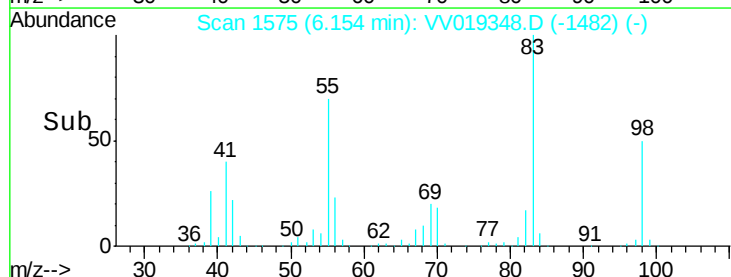
98 50.1 41.4 62.0

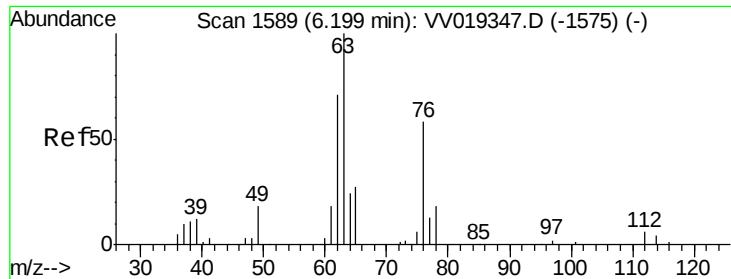


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

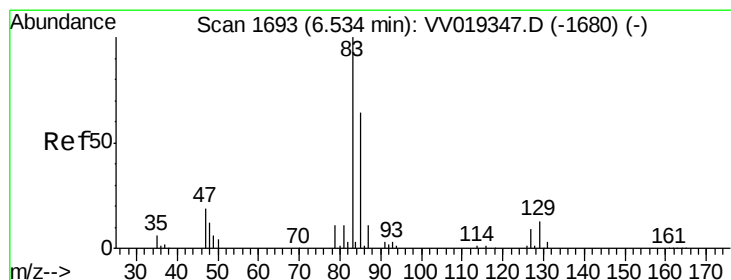
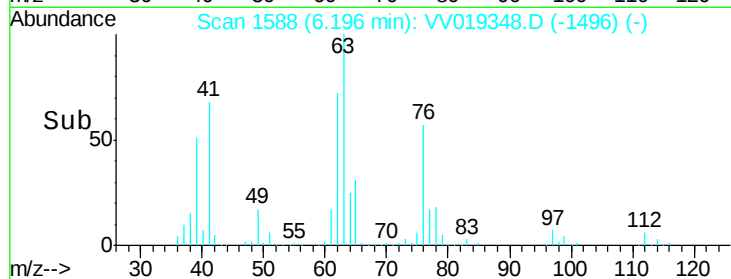
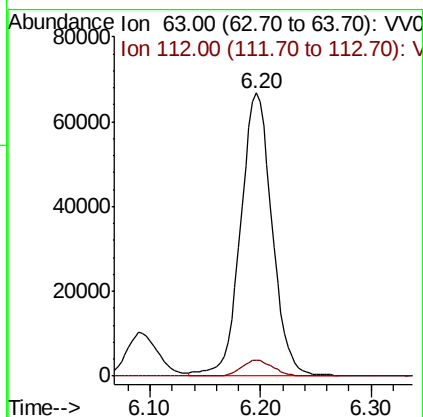
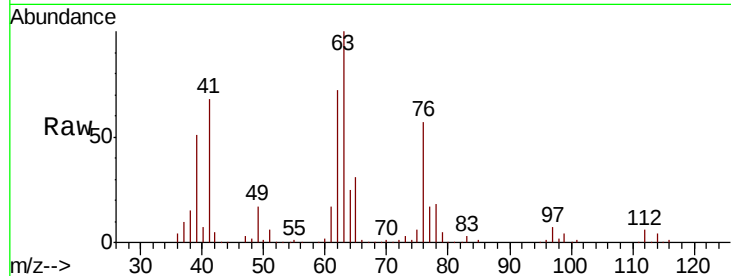




#37
 1,2-Dichloropropane
 Concen: 88.972 ug/L
 RT: 6.20 min Scan# 1588
 Delta R.T. -0.00 min
 Lab File: VV019348.D
 Acq: 12 Nov 2020 12:33

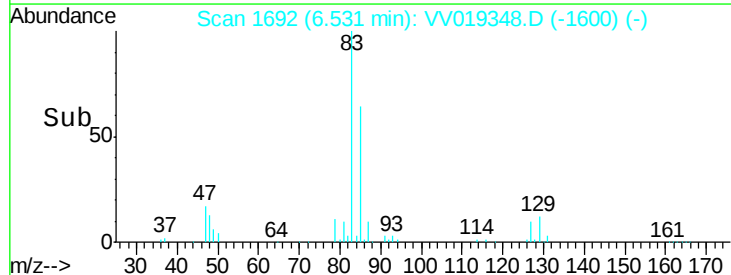
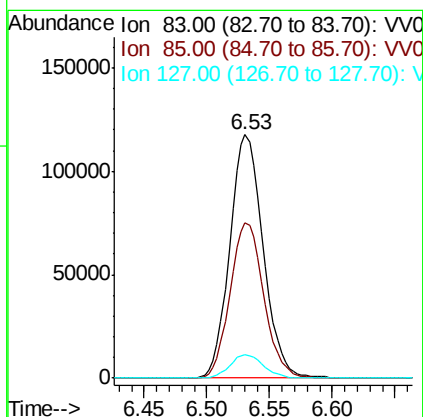
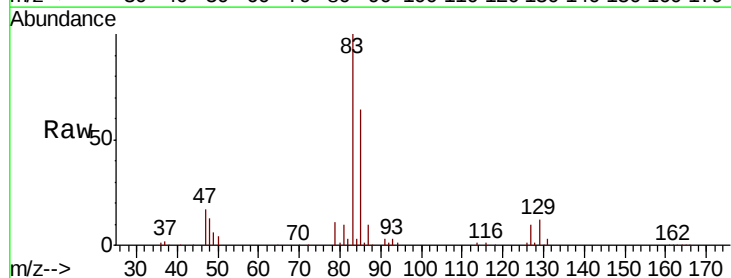
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10066

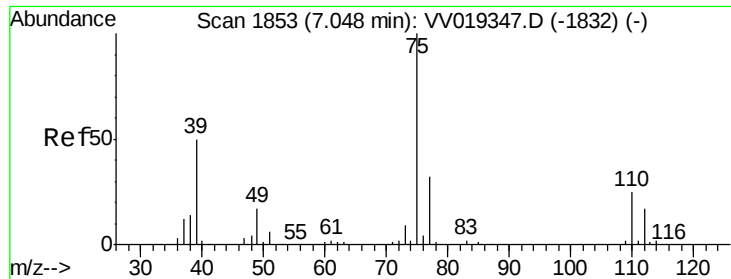
Tot Ion: 63 Resp: 130525
 Ion Ratio Lower Upper
 63 100
 112 5.7 4.6 6.8



#38
 Bromodichloromethane
 Concen: 97.619 ug/L
 RT: 6.53 min Scan# 1692
 Delta R.T. -0.00 min
 Lab File: VV019348.D
 Acq: 12 Nov 2020 12:33

Tgt Ion: 83 Resp: 217223
 Ion Ratio Lower Upper
 83 100
 85 63.6 45.1 83.7
 127 9.6 7.2 10.8

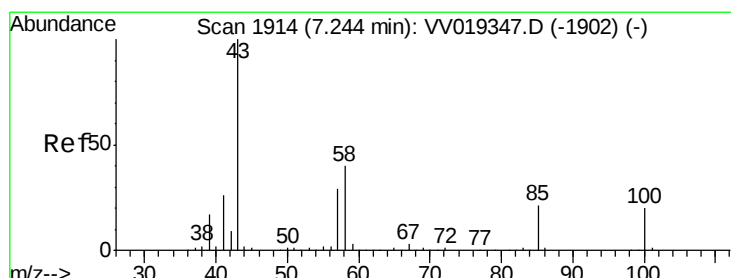
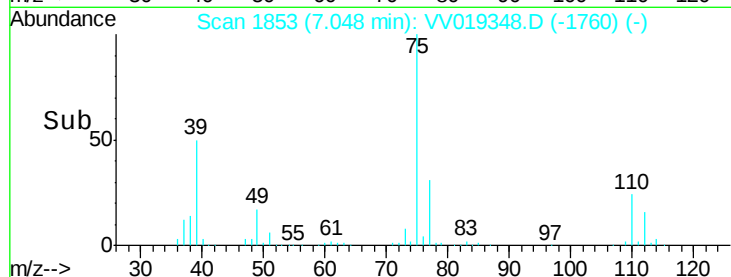
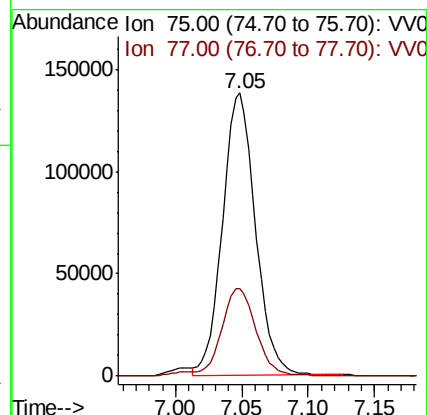
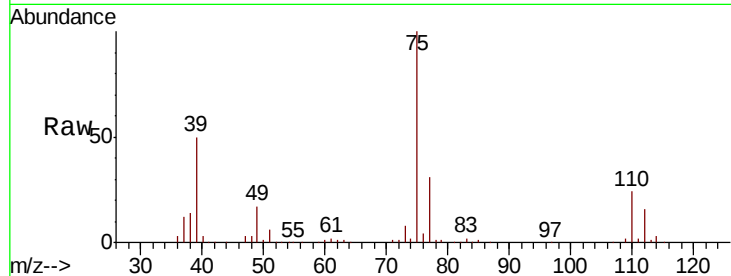




#39
 cis-1,3-Dichloropropene
 Concen: 97.397 ug/L
 RT: 7.05 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VV019348.D
 Acq: 12 Nov 2020 12:33

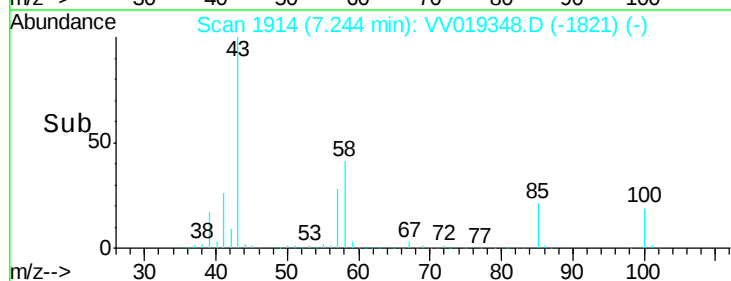
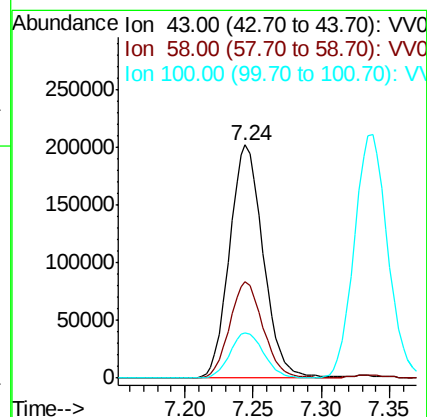
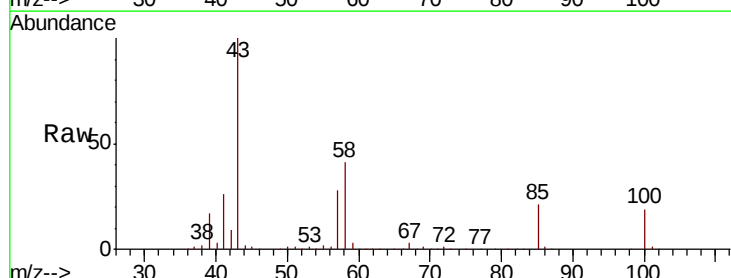
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10066

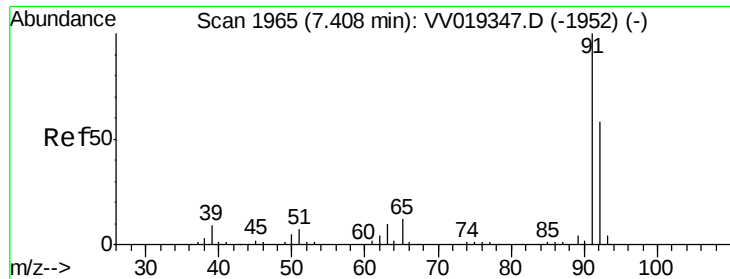
Tot Ion: 75 Resp: 238550
 Ion Ratio Lower Upper
 75 100
 77 31.1 22.7 42.1



#40
 4-Methyl-2-pentanone
 Concen: 174.676 ug/L
 RT: 7.24 min Scan# 1914
 Delta R.T. 0.00 min
 Lab File: VV019348.D
 Acq: 12 Nov 2020 12:33

Tgt Ion: 43 Resp: 347005
 Ion Ratio Lower Upper
 43 100
 58 40.9 32.7 49.1
 100 19.4 15.9 23.9





#42

Toluene

Concen: 97.625 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

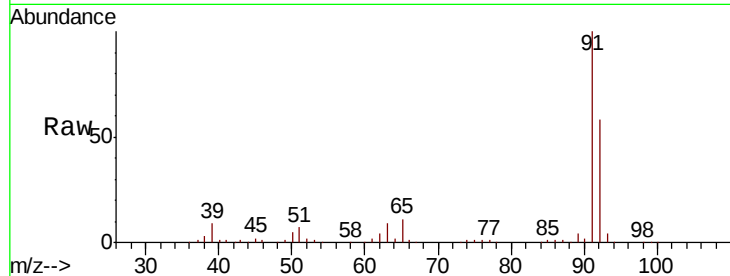
VSTD10066

Tot Ion: 91 Resp: 637123

Ion Ratio Lower Upper

91 100

92 57.9 40.5 75.3



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.41

400000

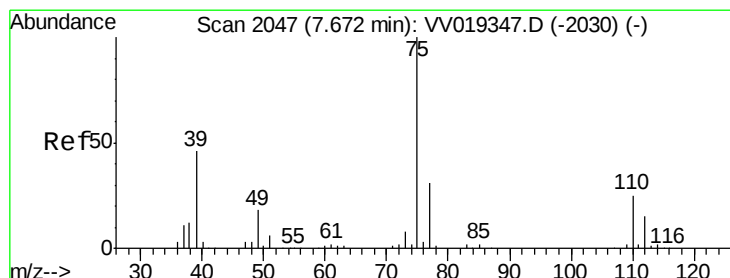
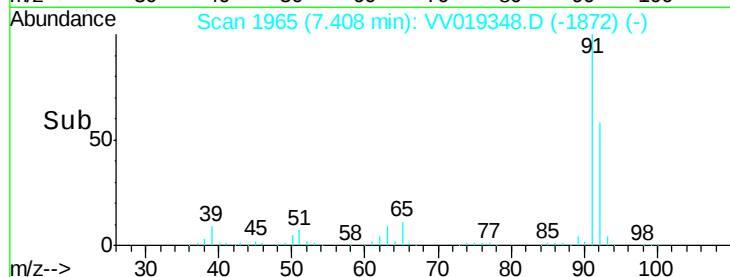
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 100.566 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. -0.00 min

Lab File: VV019348.D

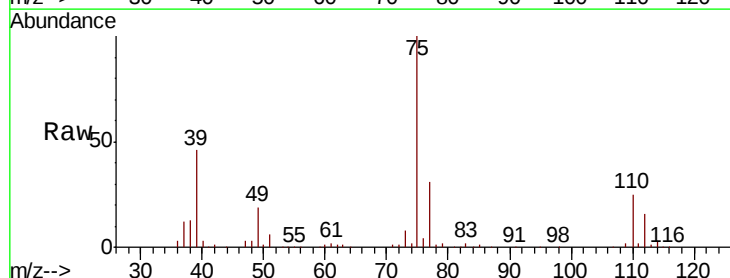
Acq: 12 Nov 2020 12:33

Tgt Ion: 75 Resp: 257666

Ion Ratio Lower Upper

75 100

77 31.1 22.0 41.0



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

7.67

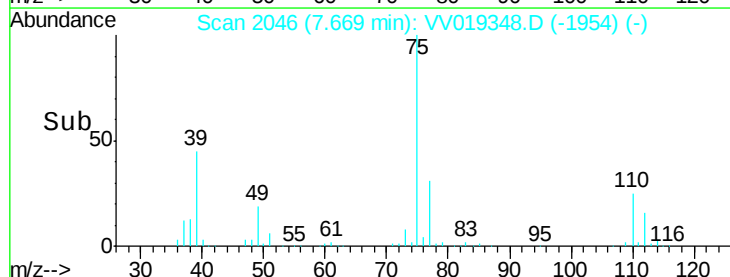
150000

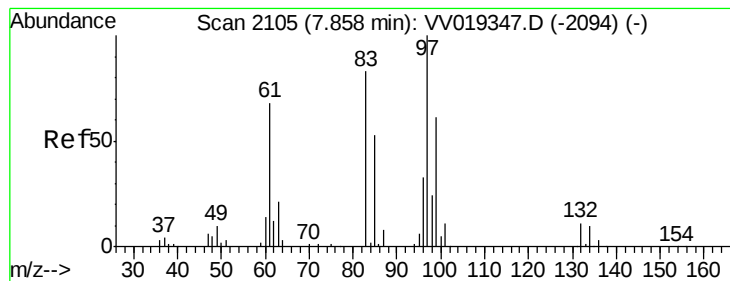
100000

50000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 93.684 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

Tot Ion: 97 Resp: 140695

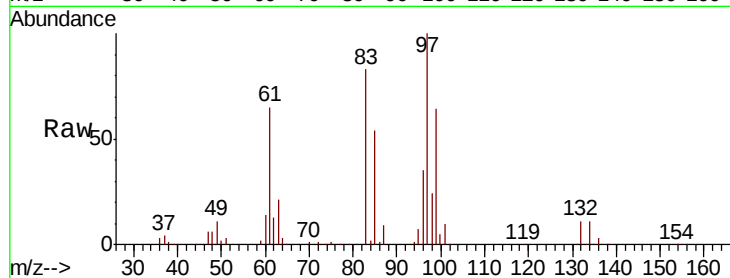
Ion Ratio Lower Upper

97 100

99 63.9 42.5 78.9

83 83.1 58.1 107.9

85 53.7 37.2 69.0

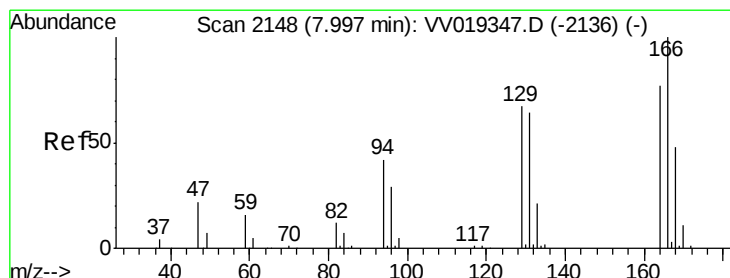
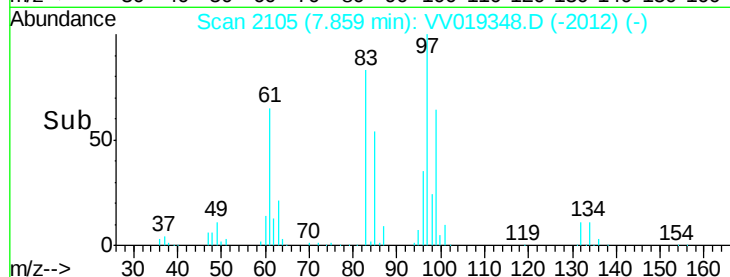
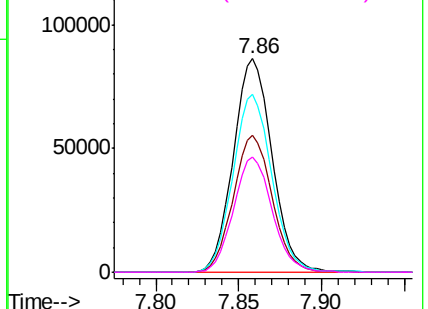


Abundance Ion 97.00 (96.70 to 97.70): VV0

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: 102.588 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Tgt Ion: 164 Resp: 145455

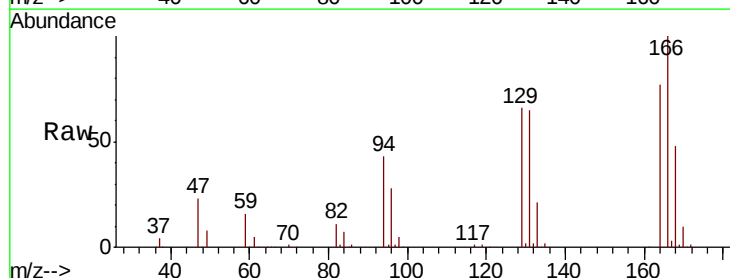
Ion Ratio Lower Upper

164 100

129 86.5 60.9 113.1

131 84.6 58.9 109.5

166 130.3 91.4 169.8

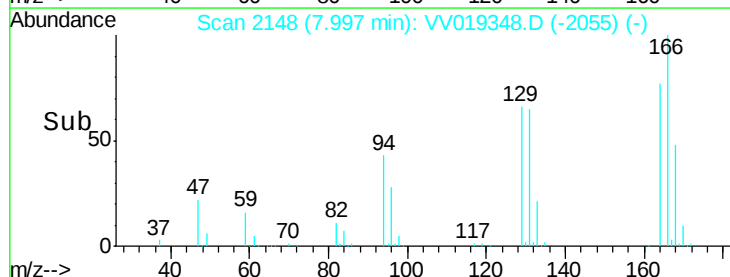
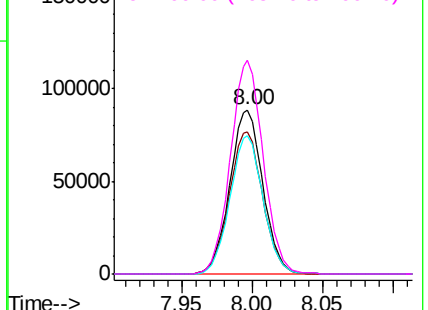


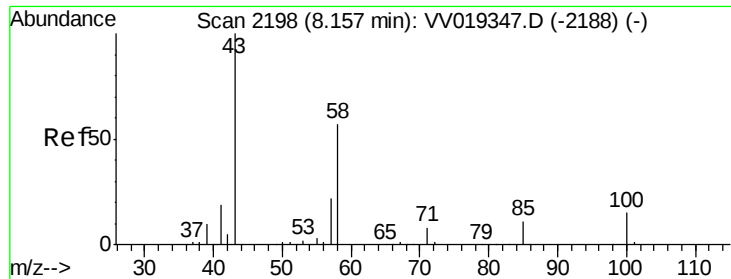
Abundance Ion 164.00 (163.70 to 164.70): V

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

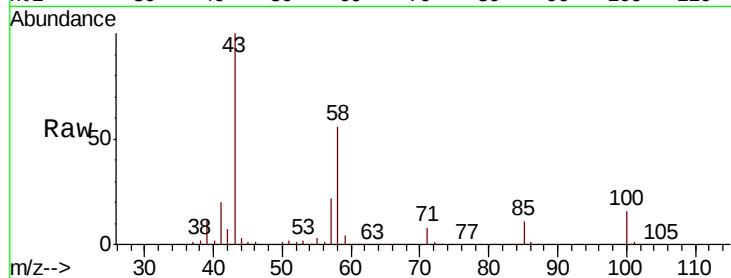




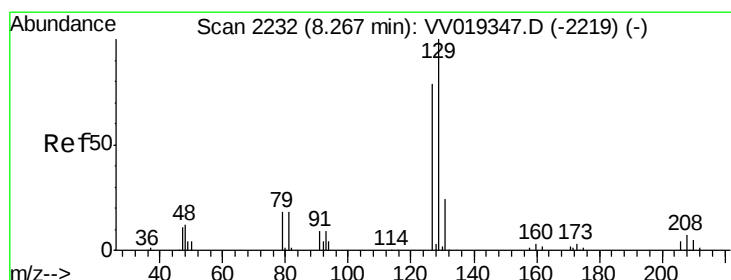
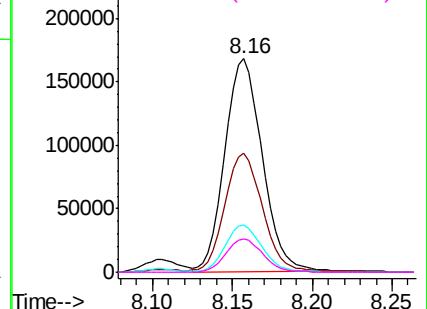
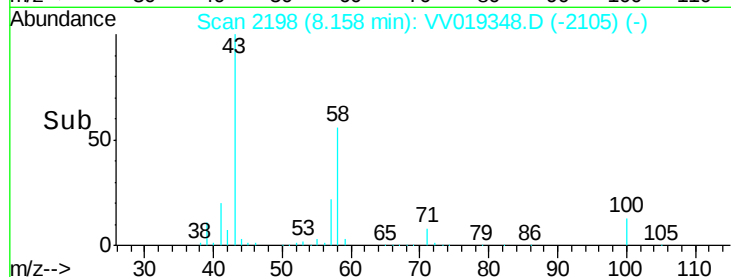
#48
2-Hexanone
Concen: 169.039 ug/L
RT: 8.16 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VV019348.D
Acq: 12 Nov 2020 12:33

Instrument :
MSVOA_V
ClientSampleId :
VSTD10066

Tot Ion: 43 Resp: 268354
Ion Ratio Lower Upper
43 100
58 56.1 43.6 65.4
57 21.6 17.2 25.8
100 15.5 11.9 17.9

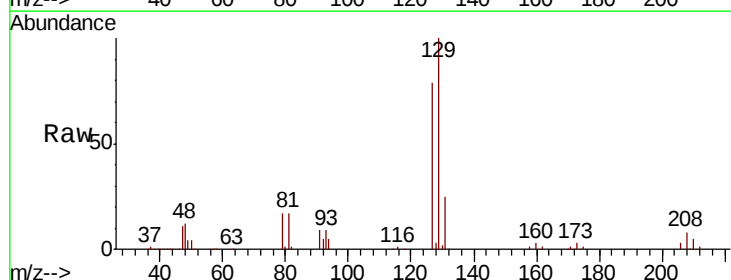


Abundance Ion 43.00 (42.70 to 43.70): VV019348.D (-2105) (-)
Ion 58.00 (57.70 to 58.70): VV019348.D (-2105) (-)
Ion 57.00 (56.70 to 57.70): VV019348.D (-2105) (-)
Ion 100.00 (99.70 to 100.70): VV019348.D (-2105) (-)

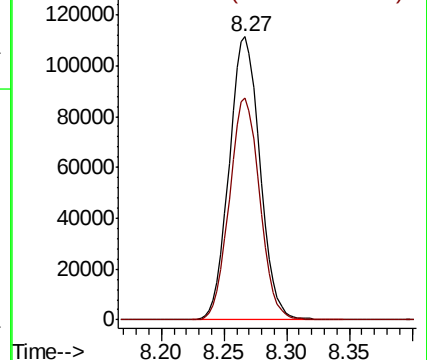
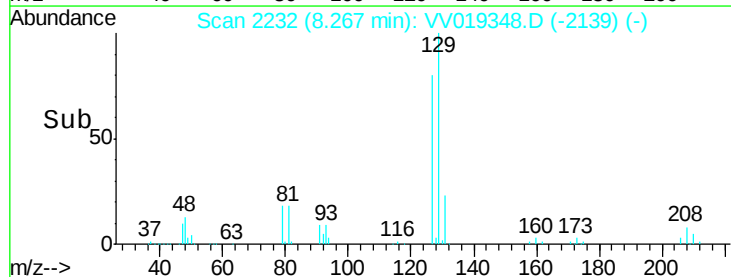


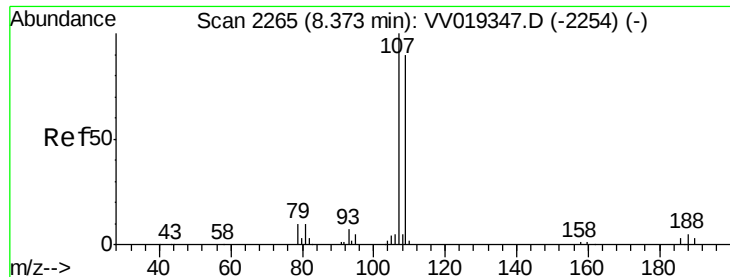
#49
Dibromochloromethane
Concen: 103.377 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. 0.00 min
Lab File: VV019348.D
Acq: 12 Nov 2020 12:33

Tgt Ion: 129 Resp: 189866
Ion Ratio Lower Upper
129 100
127 78.6 54.9 102.1



Abundance Ion 129.00 (128.70 to 129.70): VV019348.D (-2139) (-)
Ion 127.00 (126.70 to 127.70): VV019348.D (-2139) (-)

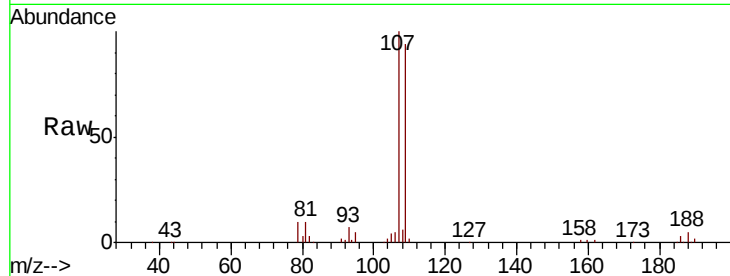




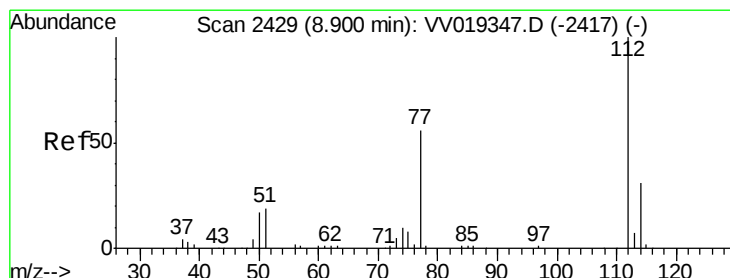
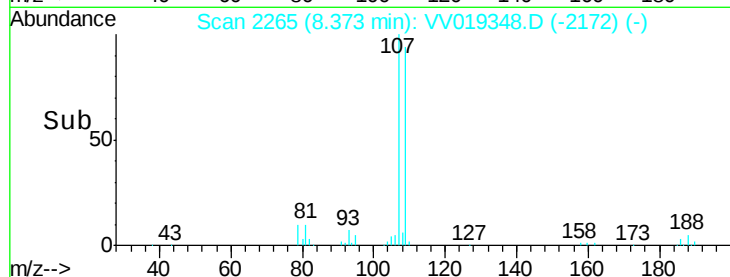
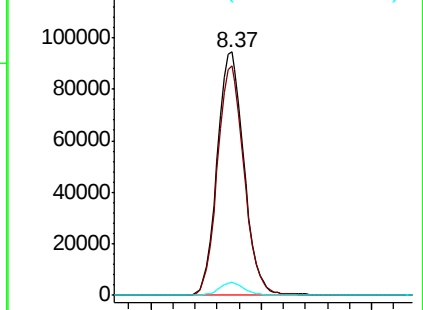
#50
1,2-Dibromoethane
Concen: 98.959 ug/L
RT: 8.37 min Scan# 2265
Delta R.T. 0.00 min
Lab File: VV019348.D
Acq: 12 Nov 2020 12:33

Instrument :
MSVOA_V
ClientSampleId :
VSTD10066

Tot Ion:107 Resp: 158884
Ion Ratio Lower Upper
107 100
109 94.3 62.9 116.9
188 5.3 3.6 5.4

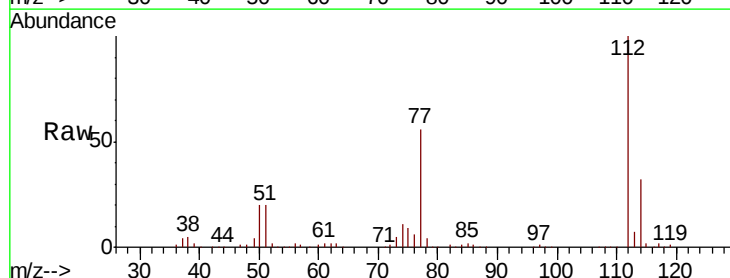


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

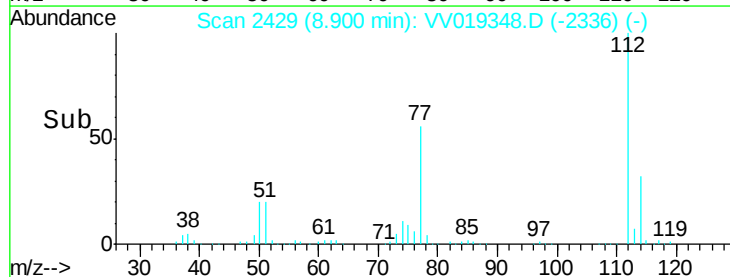
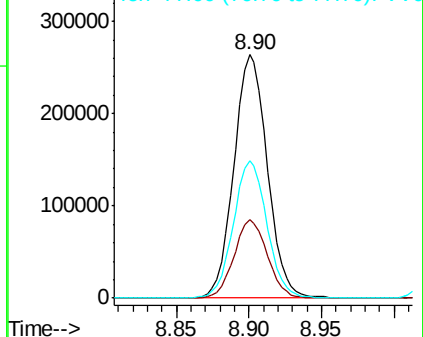


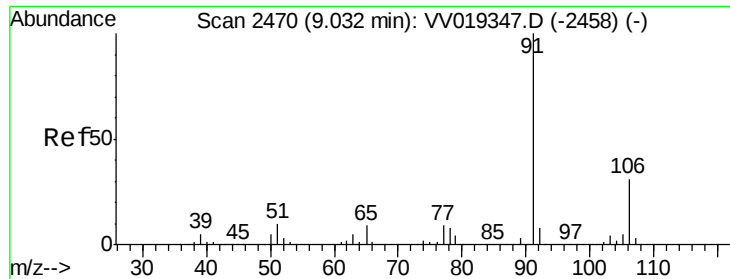
#51
Chlorobenzene
Concen: 97.840 ug/L
RT: 8.90 min Scan# 2429
Delta R.T. 0.00 min
Lab File: VV019348.D
Acq: 12 Nov 2020 12:33

Tgt Ion:112 Resp: 422282
Ion Ratio Lower Upper
112 100
114 32.0 21.8 40.6
77 56.4 45.1 67.7



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): VV0





#52

Ethylbenzene

Concen: 100.694 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

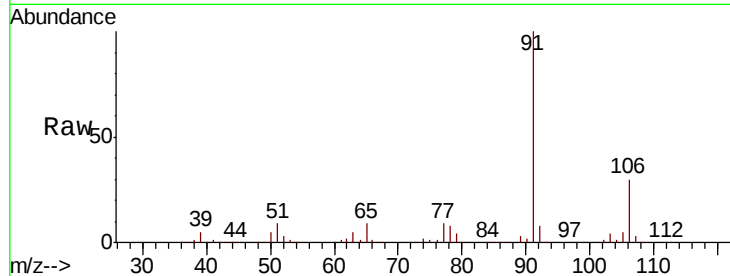
VSTD10066

Tot Ion: 91 Resp: 727477

Ion Ratio Lower Upper

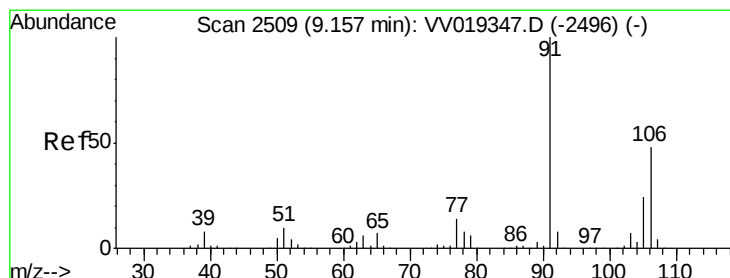
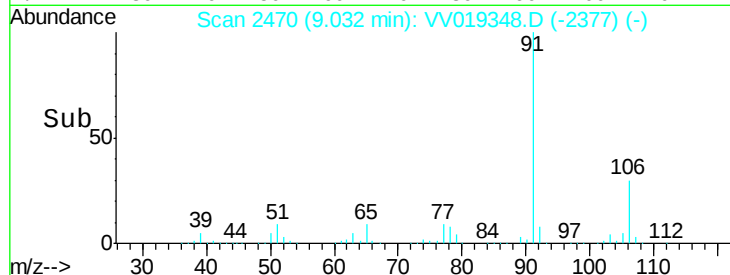
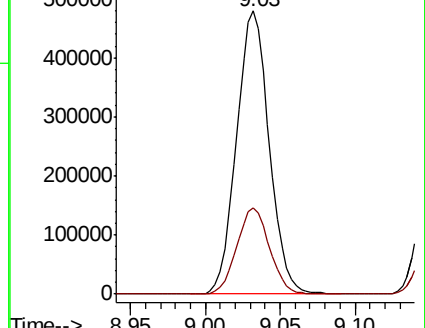
91 100

106 30.4 21.8 40.4



Abundance Ion 91.00 (90.70 to 91.70): VV019348.D (-2377) (-)

Ion 106.00 (105.70 to 106.70): VV019348.D (-2377) (-)



#53

m,p-Xylene

Concen: 102.913 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV019348.D

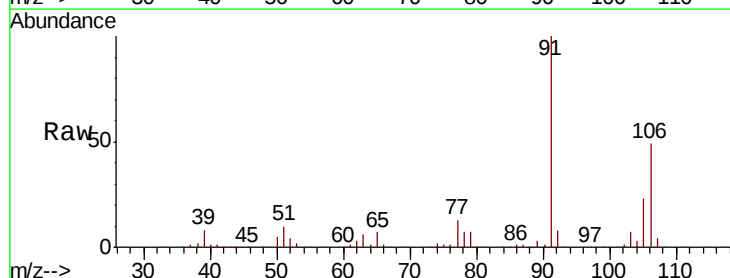
Acq: 12 Nov 2020 12:33

Tgt Ion: 106 Resp: 280641

Ion Ratio Lower Upper

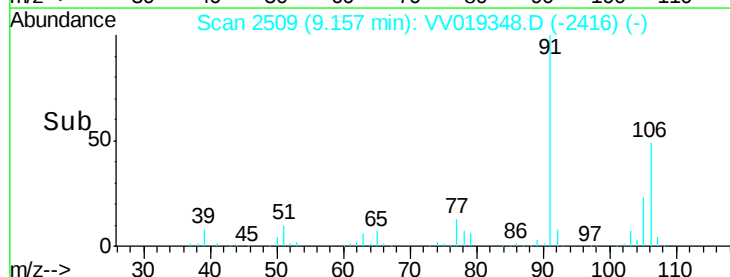
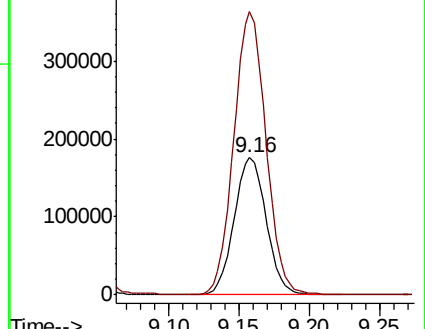
106 100

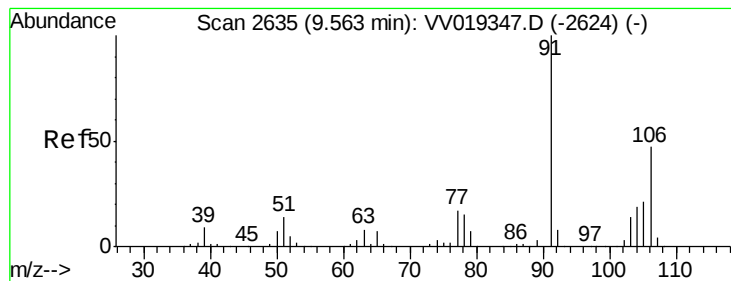
91 206.2 144.9 269.1



Abundance Ion 106.00 (105.70 to 106.70): VV019348.D (-2416) (-)

Ion 91.00 (90.70 to 91.70): VV019348.D (-2416) (-)





#54

o-xylene

Concen: 103.640 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

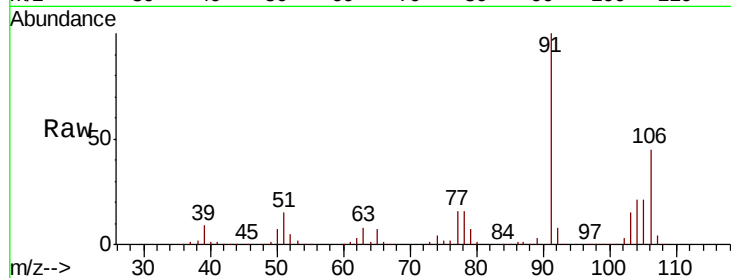
VSTD10066

Tot Ion:106 Resp: 272764

Ion Ratio Lower Upper

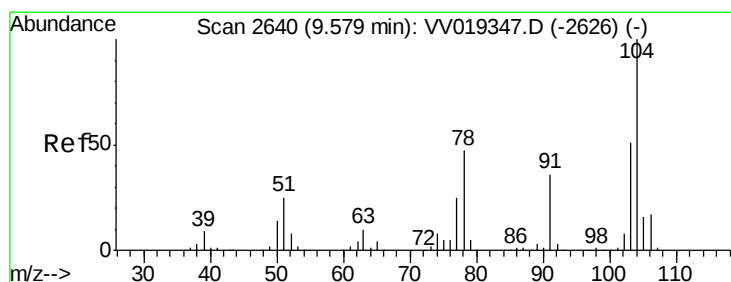
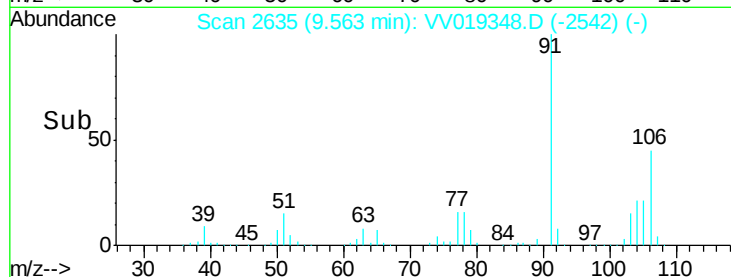
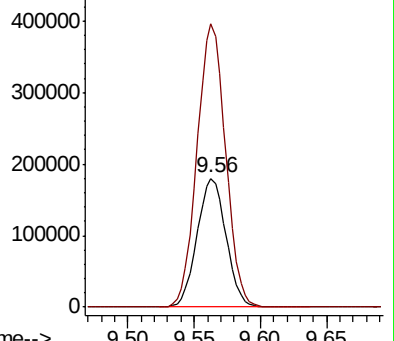
106 100

91 220.1 149.3 277.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 105.841 ug/L

RT: 9.58 min Scan# 2640

Delta R.T. 0.00 min

Lab File: VV019348.D

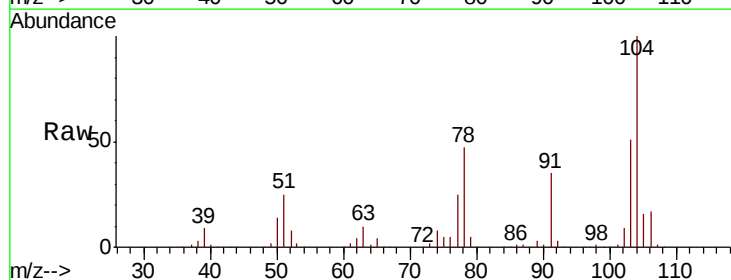
Acq: 12 Nov 2020 12:33

Tgt Ion:104 Resp: 492758

Ion Ratio Lower Upper

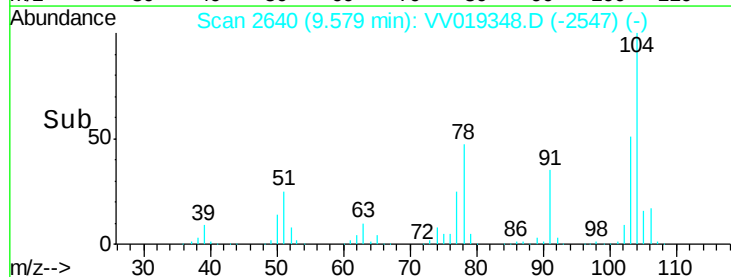
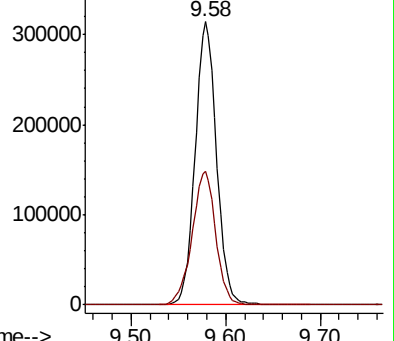
104 100

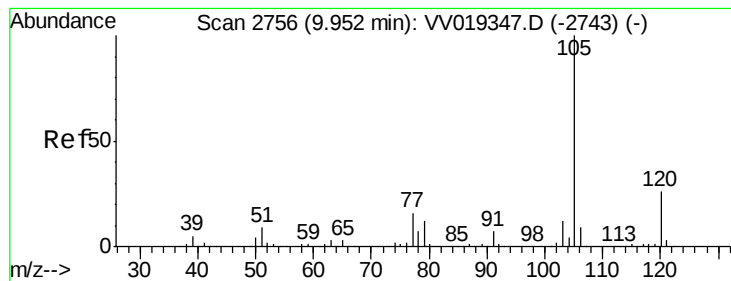
78 47.1 33.0 61.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 105.613 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

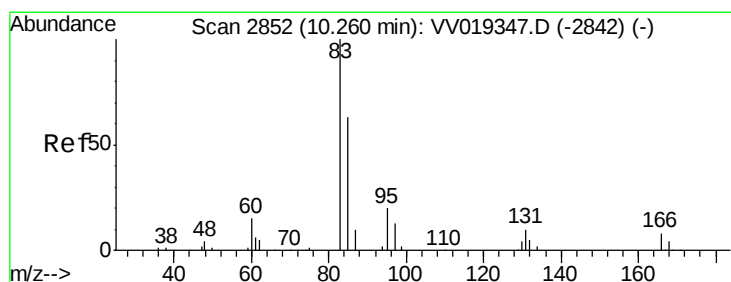
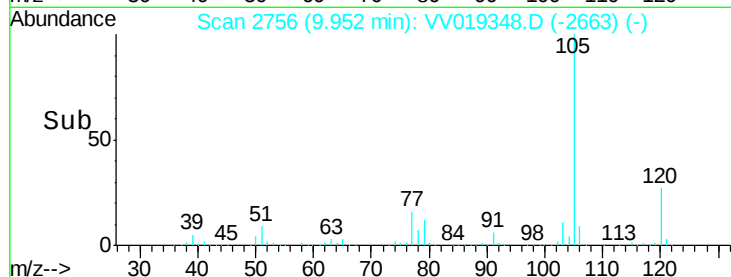
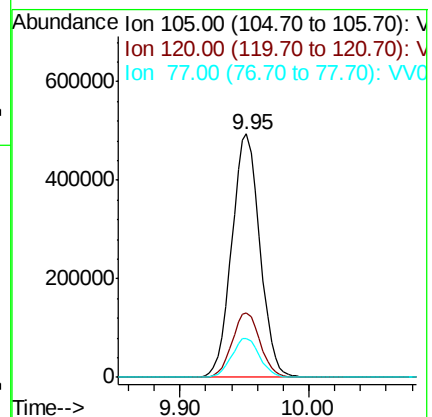
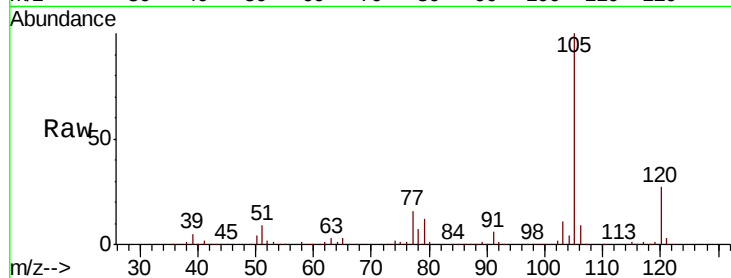
Tot Ion:105 Resp: 744684

Ion Ratio Lower Upper

105 100

120 26.5 21.3 31.9

77 16.0 12.6 18.8



#58

1,1,2,2-Tetrachloroethane

Concen: 91.580 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

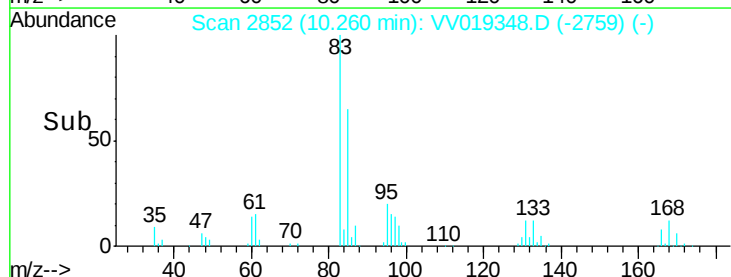
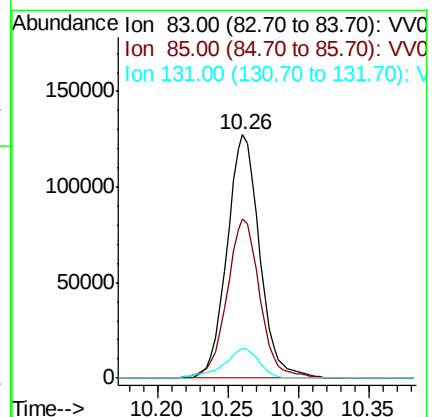
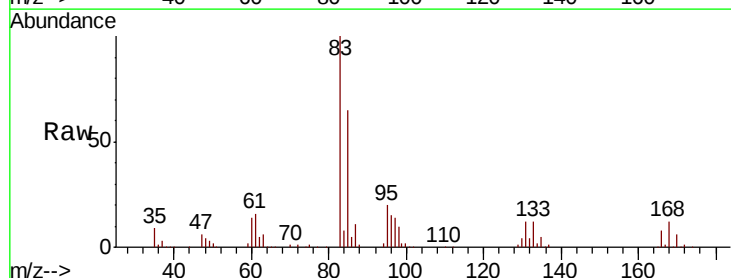
Tgt Ion: 83 Resp: 205342

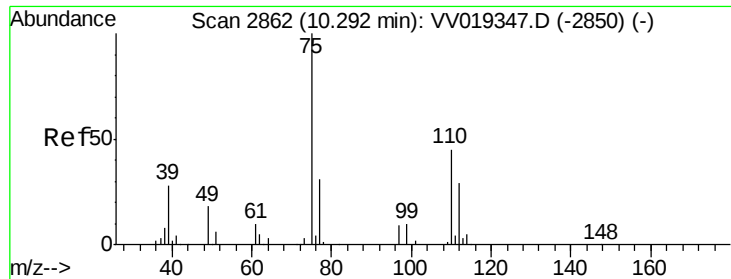
Ion Ratio Lower Upper

83 100

85 65.1 45.1 83.9

131 12.1 9.6 14.4





#59

1,2,3-Trichloropropane

Concen: 92.513 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

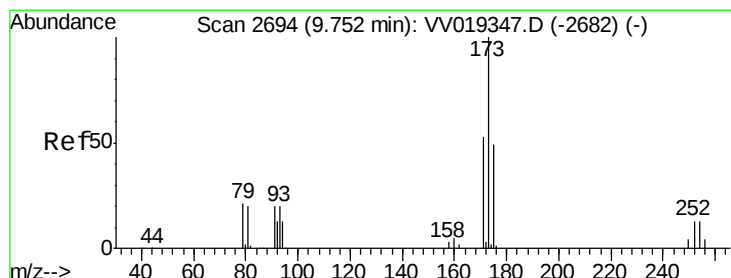
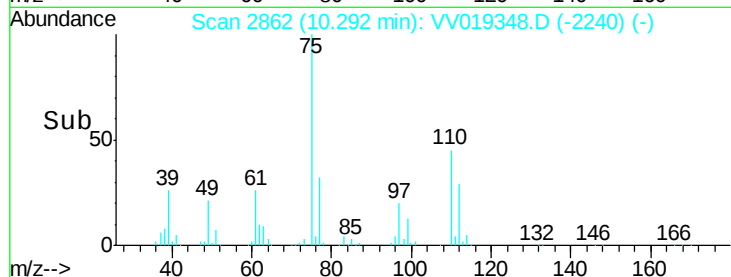
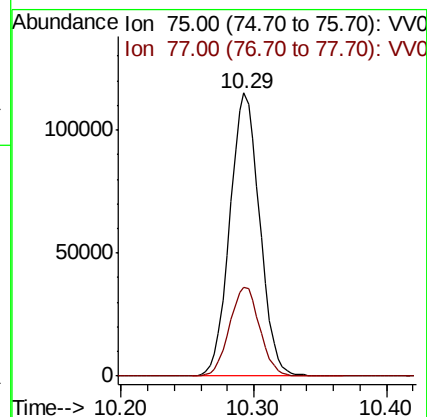
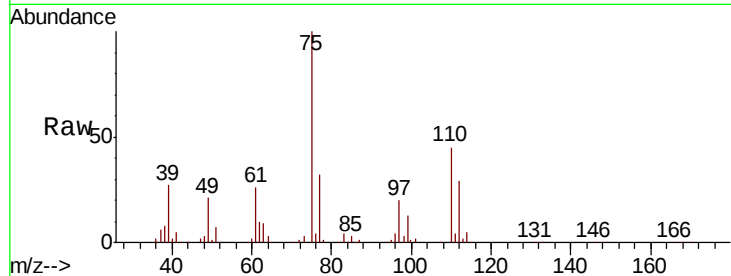
VSTD10066

Tot Ion: 75 Resp: 179640

Ion Ratio Lower Upper

75 100

77 32.0 25.0 37.4



#61

Bromoform

Concen: 97.082 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

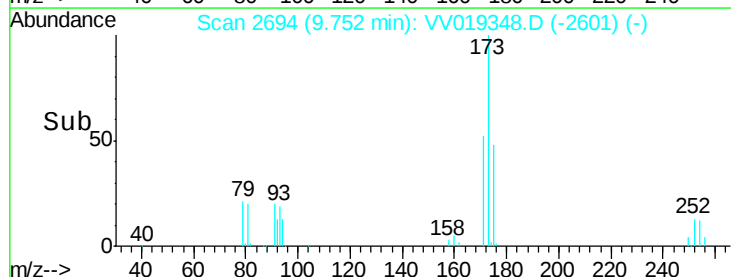
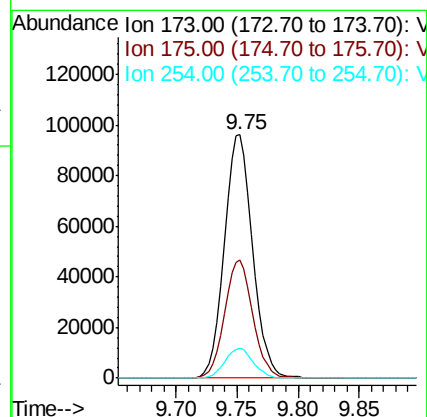
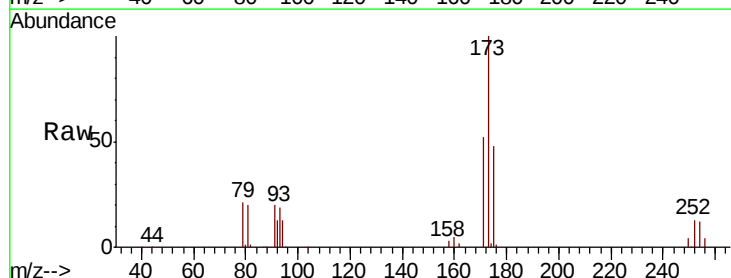
Tgt Ion: 173 Resp: 156729

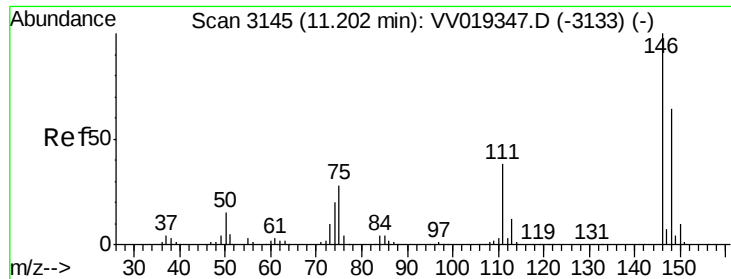
Ion Ratio Lower Upper

173 100

175 48.4 38.3 57.5

254 12.3 10.3 15.5





#62

1,3-Dichlorobenzene

Concen: 94.356 ug/L

RT: 11.20 min Scan# 3144

Delta R.T. -0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

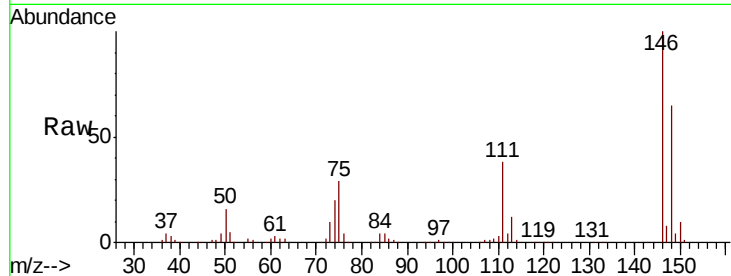
Tot Ion:146 Resp: 385335

Ion Ratio Lower Upper

146 100

111 38.4 26.5 49.3

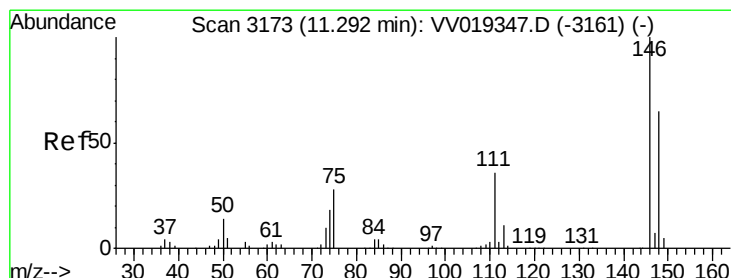
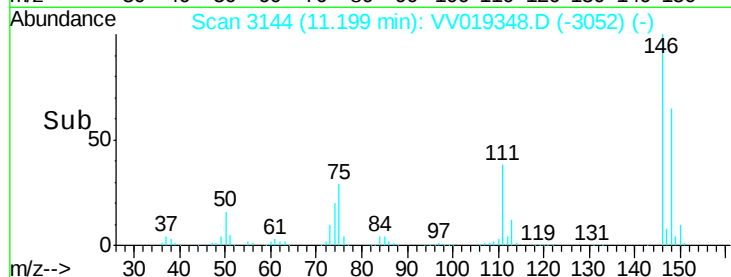
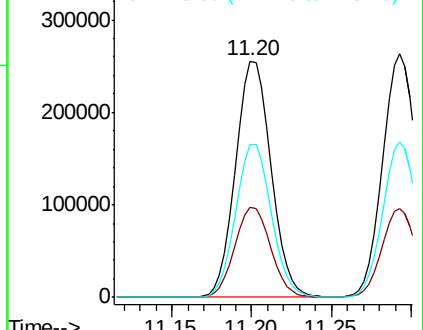
148 64.6 44.5 82.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 94.505 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

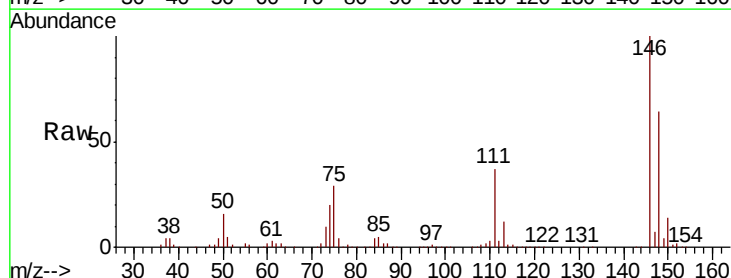
Tgt Ion:146 Resp: 400161

Ion Ratio Lower Upper

146 100

111 36.6 25.1 46.7

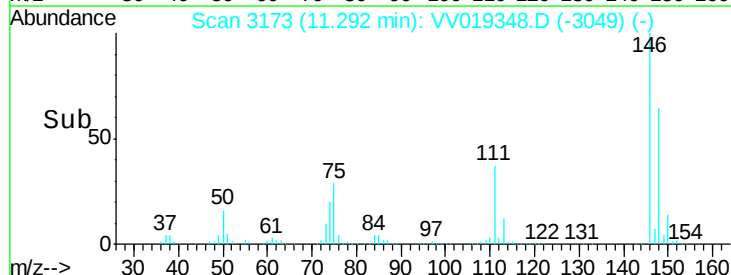
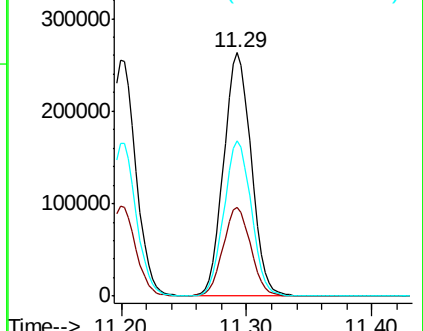
148 64.0 45.4 84.4

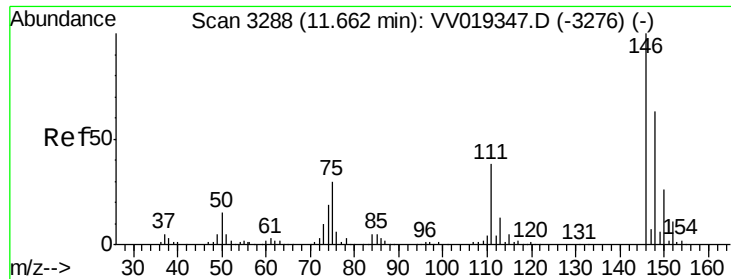


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 95.441 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

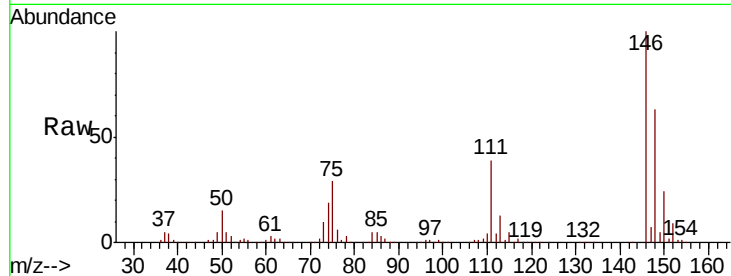
Tot Ion:146 Resp: 387744

Ion Ratio Lower Upper

146 100

111 39.1 30.6 45.8

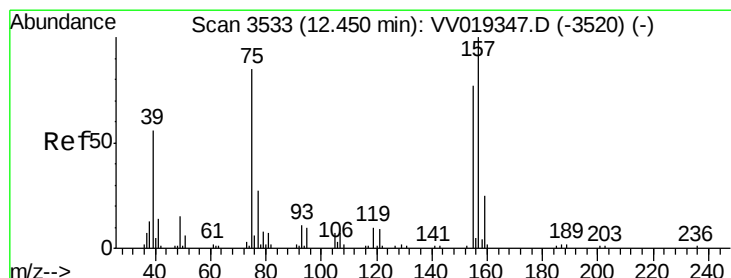
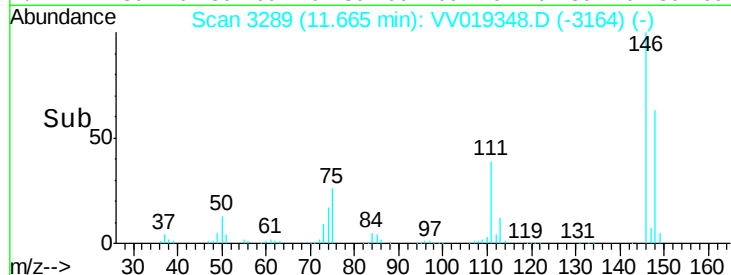
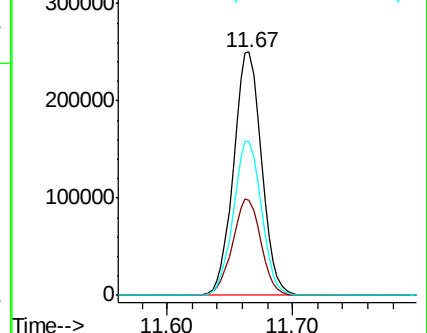
148 63.3 50.6 75.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 86.995 ug/L

RT: 12.45 min Scan# 3532

Delta R.T. -0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

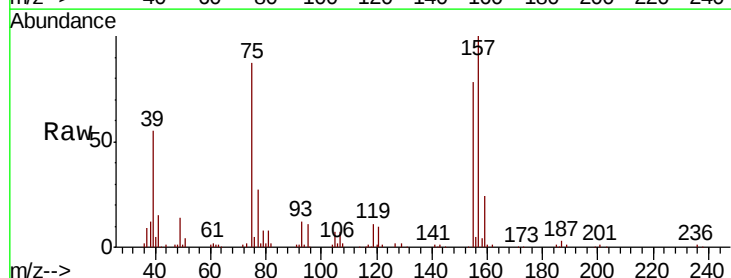
Tgt Ion: 75 Resp: 59207

Ion Ratio Lower Upper

75 100

155 88.8 72.2 108.2

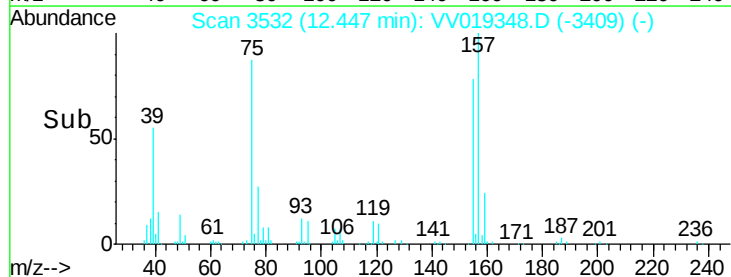
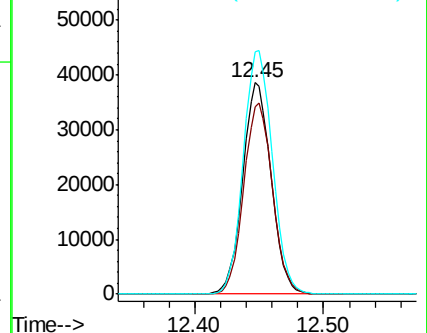
157 114.3 94.1 141.1

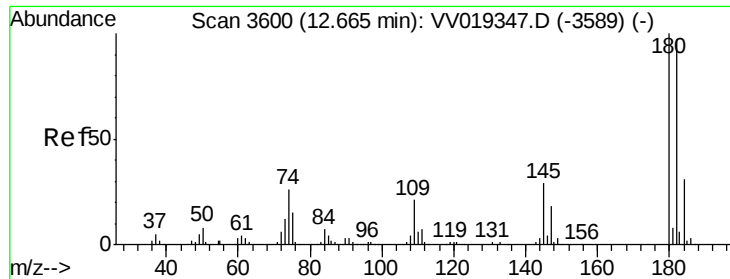


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

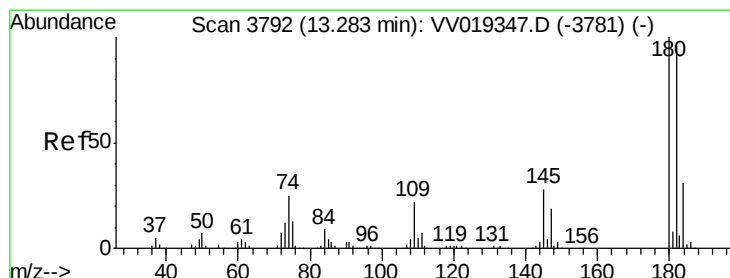
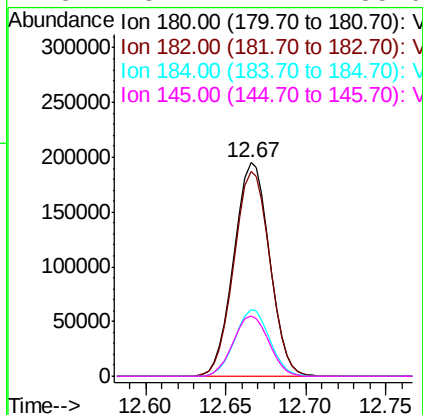
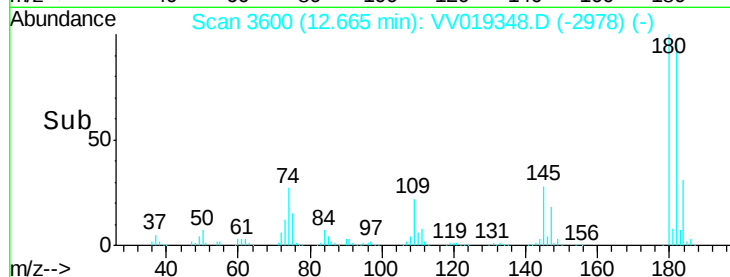
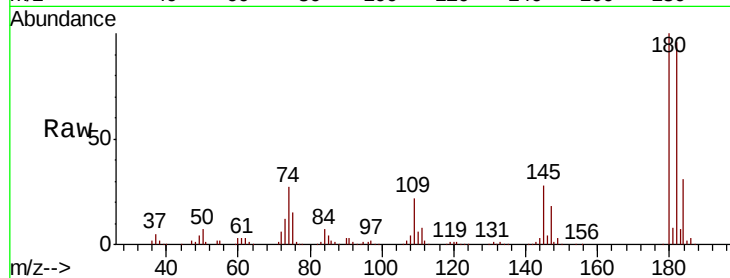




#67
 1,3,5-Trichlorobenzene
 Concen: 97.998 ug/L
 RT: 12.67 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VV019348.D
 Acq: 12 Nov 2020 12:33

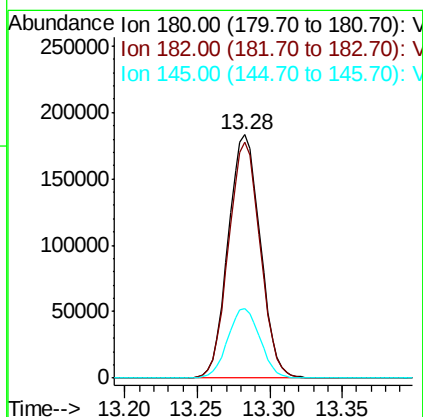
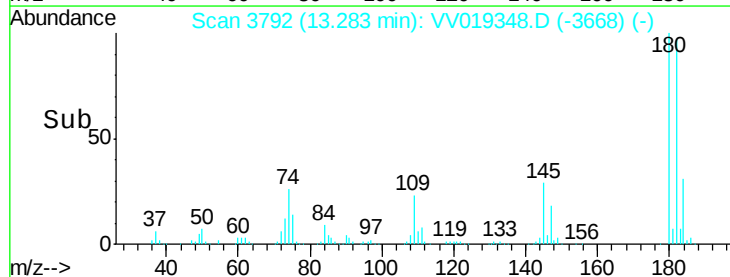
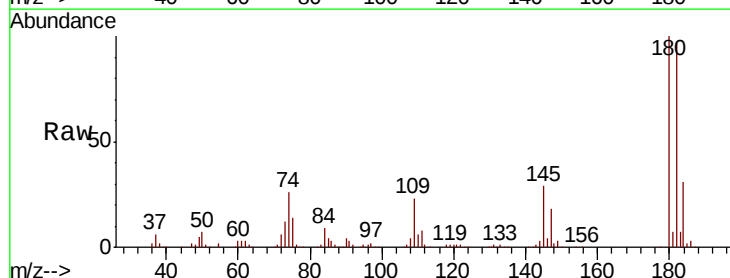
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10066

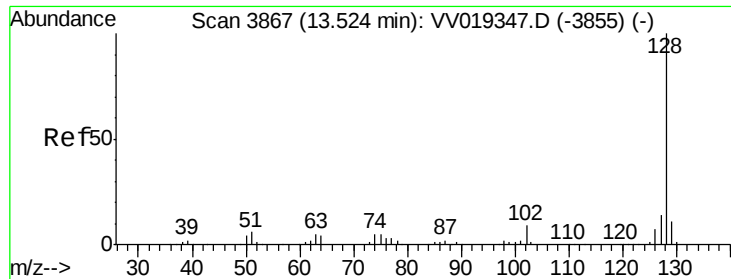
Tot Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.5	114.7
184	30.4	24.6	36.8
145	28.1	22.4	33.6



#68
 1,2,4-trichlorobenzene
 Concen: 100.276 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV019348.D
 Acq: 12 Nov 2020 12:33

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	77.0	115.4
145	28.5	22.5	33.7





#69

Naphthalene

Concen: 90.888 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

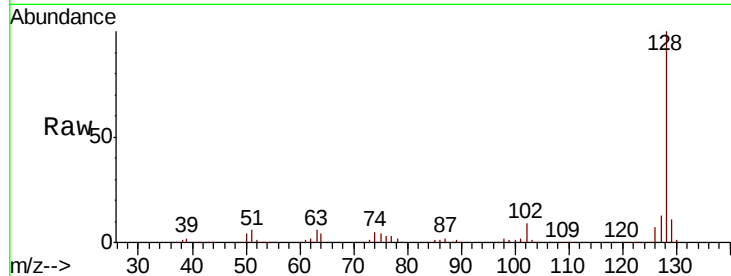
Tot Ion:128 Resp: 692088

Ion Ratio Lower Upper

128 100

127 13.2 10.9 16.3

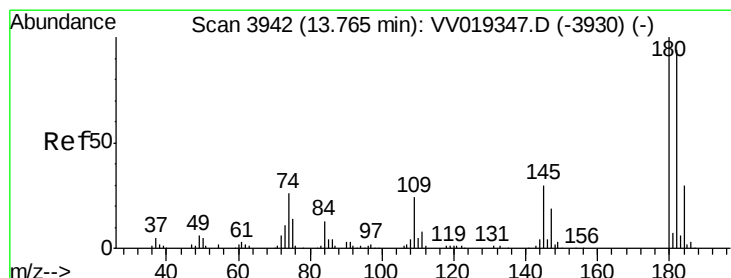
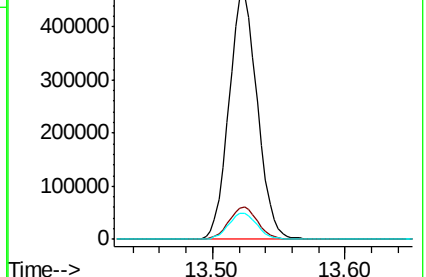
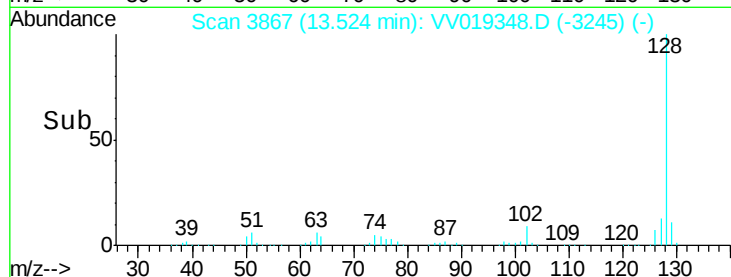
129 10.9 8.7 13.1



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



#70

1,2,3-Trichlorobenzene

Concen: 100.151 ug/L

RT: 13.77 min Scan# 3942

Delta R.T. 0.00 min

Lab File: VV019348.D

Acq: 12 Nov 2020 12:33

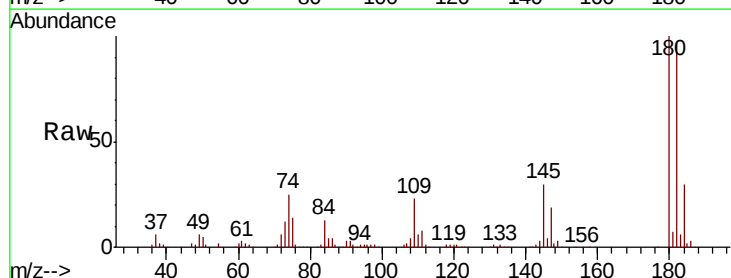
Tgt Ion:180 Resp: 277460

Ion Ratio Lower Upper

180 100

182 96.1 76.0 114.0

145 30.1 24.2 36.2



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

