

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV112918\
 Data File : VV008766.D
 Acq On : 29 Nov 2018 16:09
 Operator : SY/MD
 Sample : VSTD02067
 Misc : 25.0 mL/MSVOA_V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02067

Quant Time: Nov 30 04:38:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112918WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Nov 30 04:34:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	164495	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	152175	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	76165	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	221232	22.77	ug/L	0.00
7) Chloroethane-d5	1.59	69	153029	23.20	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.14	63	384290	20.90	ug/L	0.00
20) 2-Butanone-d5	3.96	46	522220	206.24	ug/L	0.00
24) Chloroform-d	4.41	84	442074	20.41	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.09	65	212007	20.12	ug/L	0.00
32) Benzene-d6	5.10	84	925076	20.57	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	267268	19.39	ug/L	0.00
41) Toluene-d8	7.36	98	873414	21.01	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.67	79	105526	21.97	ug/L	0.00
46) 2-Hexanone-d5	8.14	63	449131	241.93	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	182246	20.42	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.68	152	297159	19.77	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	284739	20.061 ug/L	98
3) Chloromethane	1.25	50	216832	19.365 ug/L	99
5) Vinyl chloride	1.32	62	220871	19.672 ug/L	98
6) Bromomethane	1.54	94	135945	21.668 ug/L	100
8) Chloroethane	1.60	64	116486	20.830 ug/L	97
9) Trichlorofluoromethane	1.77	101	314952	20.201 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	185876	20.214 ug/L	99
12) 1,1-Dichloroethene	2.14	96	165314	20.184 ug/L	96
13) Acetone	2.22	43	255534	199.879 ug/L	99
14) Carbon disulfide	2.32	76	503943	20.366 ug/L	100
15) Methyl Acetate	2.47	43	62971	18.998 ug/L	99
16) Methylene chloride	2.54	84	167382	18.435 ug/L	99
17) Methyl tert-butyl Ether	2.81	73	399803	20.535 ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	179793	20.450 ug/L	98
19) 1,1-Dichloroethane	3.23	63	394266	19.759 ug/L	98
21) 2-Butanone	4.05	43	528680	203.825 ug/L	100
22) cis-1,2-Dichloroethene	3.97	96	253950	20.668 ug/L	98
23) Bromochloromethane	4.31	128	104271	20.571 ug/L	98
25) Chloroform	4.43	83	418349	19.709 ug/L	98
27) 1,2-Dichloroethane	5.19	62	247274	20.528 ug/L	100
29) 1,1,1-Trichloroethane	4.66	97	371970	20.993 ug/L	99
30) Cyclohexane	4.73	56	392071	20.787 ug/L	99
31) Carbon tetrachloride	4.88	117	327028	21.872 ug/L	99
33) Benzene	5.15	78	925582	20.102 ug/L	100
34) Trichloroethene	5.96	95	255065	20.178 ug/L	99
35) Methylcyclohexane	6.18	83	429326	21.321 ug/L	99
37) 1,2-Dichloropropane	6.23	63	233459	20.492 ug/L	100
38) Bromodichloromethane	6.56	83	279734	21.520 ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	342212	22.533 ug/L	97
40) 4-Methyl-2-pentanone	7.28	43	1239309	207.194 ug/L	99

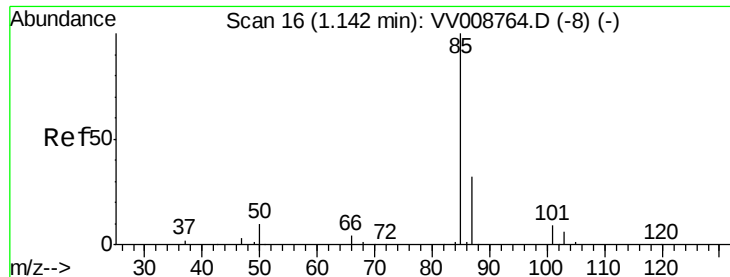
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV112918\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	993073	20.858	ug/L	100
44) trans-1,3-Dichloropropene	7.70	75	273010	22.981	ug/L	98
45) 1,1,2-Trichloroethane	7.89	97	155155	20.310	ug/L	99
47) Tetrachloroethene	8.02	164	201965	21.125	ug/L	99
48) 2-Hexanone	8.19	43	879791	211.243	ug/L	99
49) Dibromochloromethane	8.29	129	188814	23.321	ug/L	98
50) 1,2-Dibromoethane	8.40	107	148788	21.690	ug/L	99
51) Chlorobenzene	8.93	112	638002	18.538	ug/L	99
52) Ethylbenzene	9.06	91	1105430	21.333	ug/L	99
53) m,p-xylene	9.18	106	424996	21.870	ug/L	96
54) o-xylene	9.59	106	405586	21.567	ug/L	98
55) Styrene	9.60	104	686310	22.248	ug/L	100
56) Isopropylbenzene	9.98	105	1092512	21.837	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	173648	21.309	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	132867	20.545	ug/L	99
61) Bromoform	9.78	173	94321	22.799	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	497763	20.143	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	498768	18.844	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	459202	18.647	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	27130	22.369	ug/L	99
67) 1,3,5-Trichlorobenzene	12.69	180	385111	21.285	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	319951	23.928	ug/L	97
69) Naphthalene	13.55	128	519851	26.748	ug/L	99
70) 1,2,3-Trichlorobenzene	13.80	180	286428	23.736	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 20.061 ug/L

RT: 1.14 min Scan# 16

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

Instrument :

MSVOA_V

ClientSampleId :

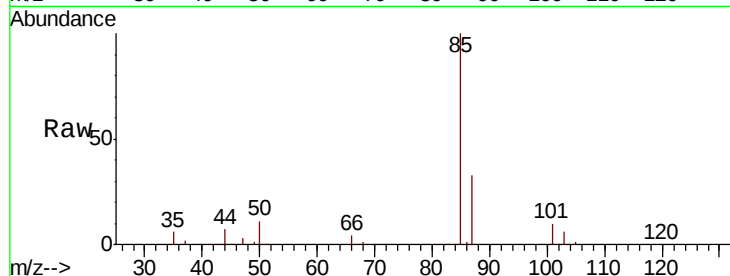
VSTD02067

Tgt Ion: 85 Resp: 284739

Ion Ratio Lower Upper

85 100

87 32.7 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VV008766.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV008766.D (-8) (-)

1.14

300000

250000

200000

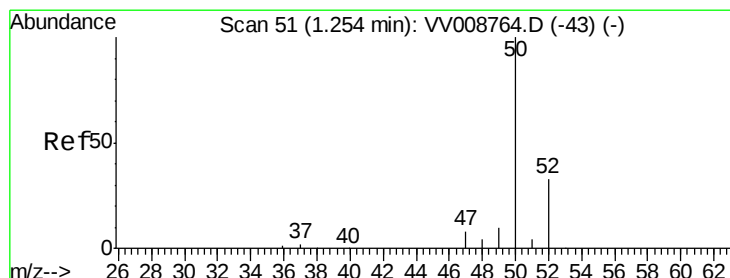
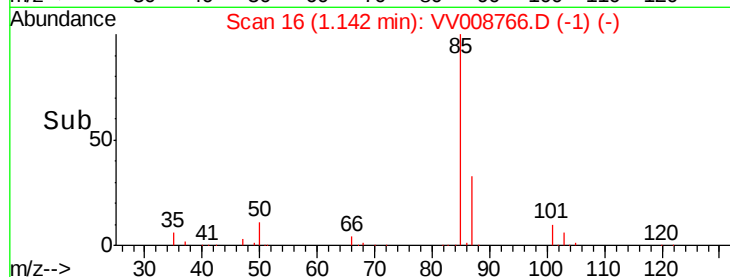
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 19.365 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV008766.D

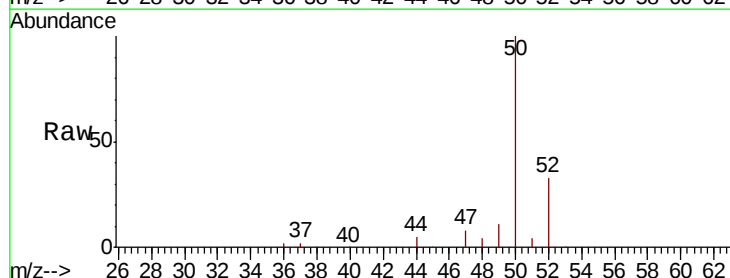
Acq: 29 Nov 2018 16:09

Tgt Ion: 50 Resp: 216832

Ion Ratio Lower Upper

50 100

52 33.1 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VV008766.D (-43) (-)

Ion 52.05 (51.75 to 52.75): VV008766.D (-43) (-)

1.25

200000

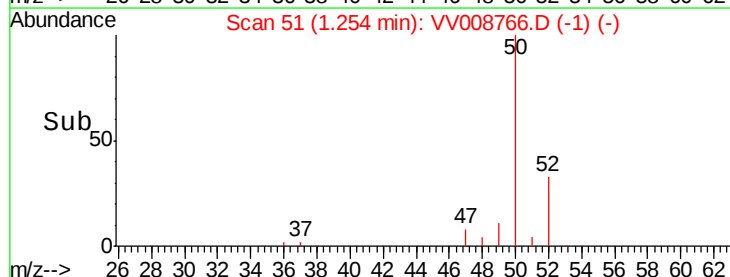
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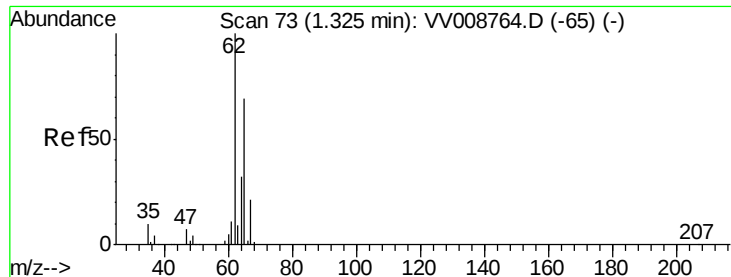
100000

50000

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Time-->





#5

Vinyl chloride

Concen: 19.672 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

Instrument :

MSVOA_V

ClientSampleId :

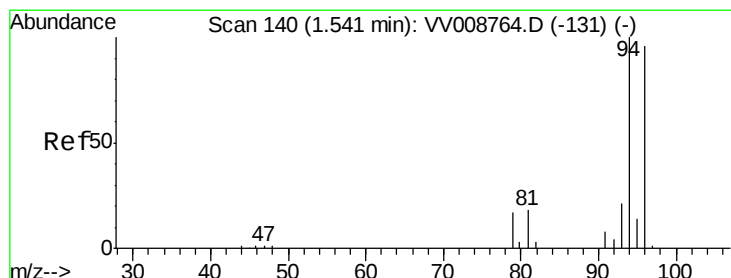
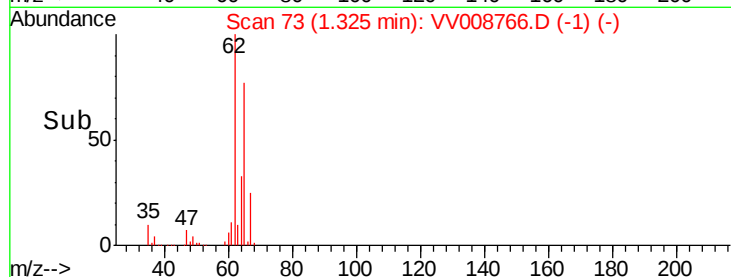
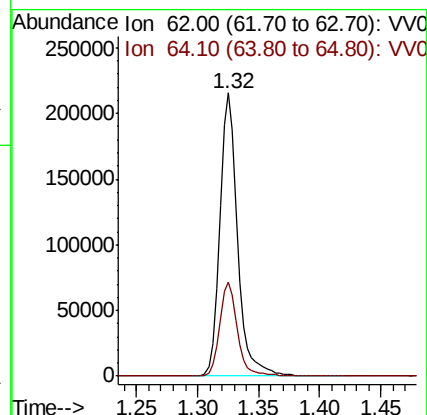
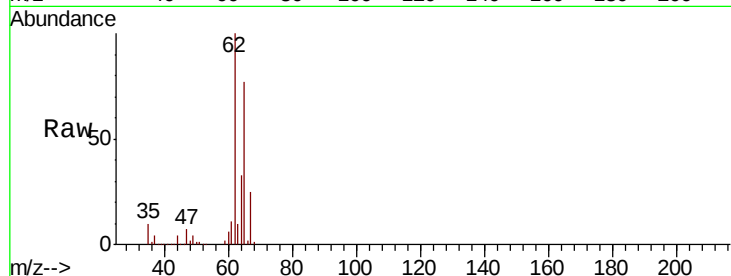
VSTD02067

Tgt Ion: 62 Resp: 220871

Ion Ratio Lower Upper

62 100

64 33.4 22.7 42.1



#6

Bromomethane

Concen: 21.668 ug/L

RT: 1.54 min Scan# 140

Delta R.T. -0.00 min

Lab File: VV008766.D

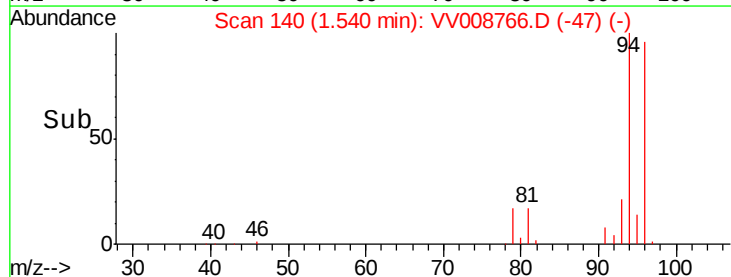
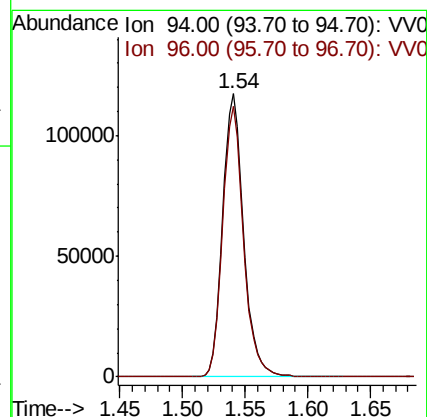
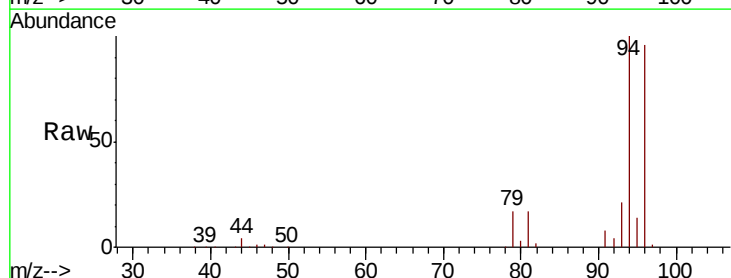
Acq: 29 Nov 2018 16:09

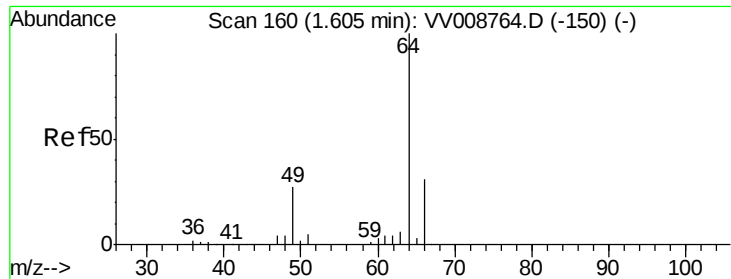
Tgt Ion: 94 Resp: 135945

Ion Ratio Lower Upper

94 100

96 95.5 67.0 124.4

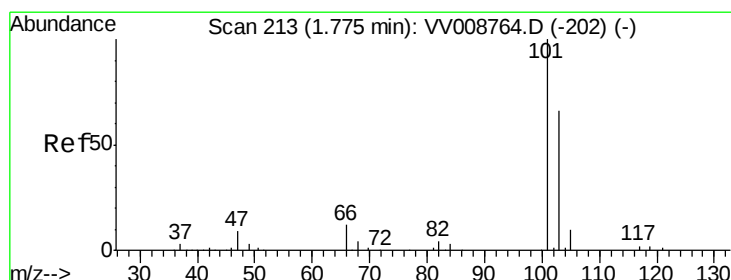
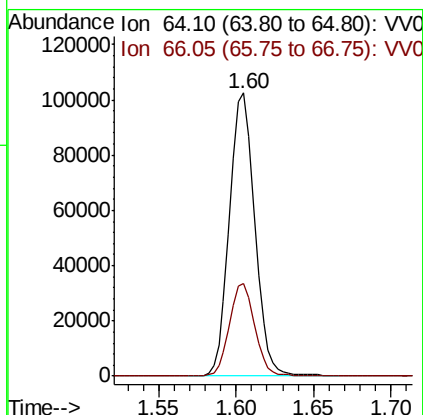
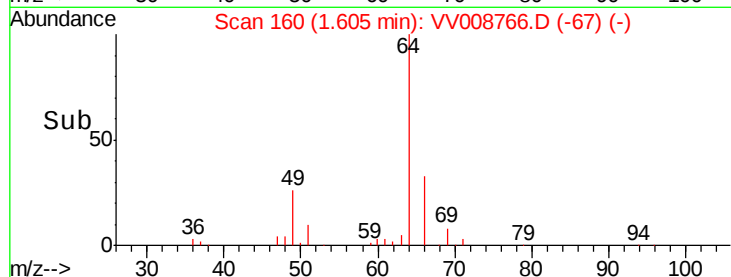
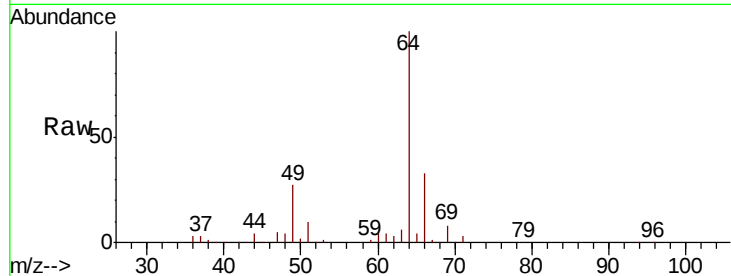




#8
 Chloroethane
 Concen: 20.830 ug/L
 RT: 1.60 min Scan# 160
 Delta R.T. -0.00 min
 Lab File: VV008766.D
 Acq: 29 Nov 2018 16:09

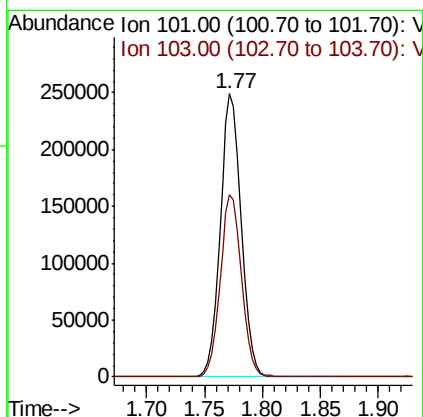
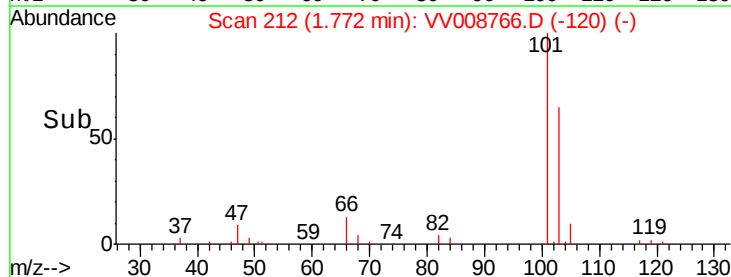
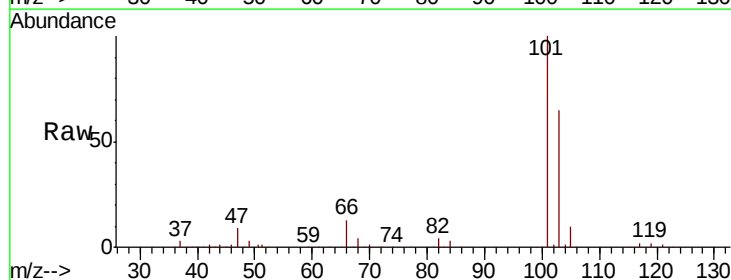
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02067

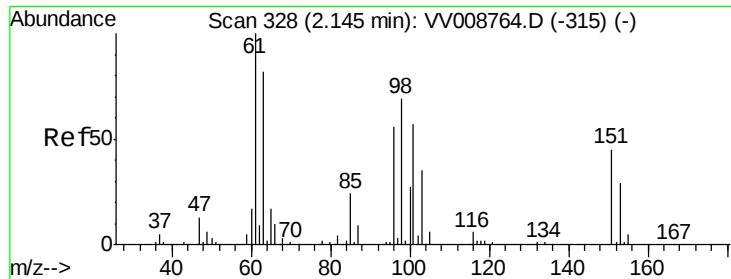
Tgt Ion: 64 Resp: 116486
 Ion Ratio Lower Upper
 64 100
 66 32.9 21.8 40.6



#9
 Trichlorofluoromethane
 Concen: 20.201 ug/L
 RT: 1.77 min Scan# 212
 Delta R.T. -0.00 min
 Lab File: VV008766.D
 Acq: 29 Nov 2018 16:09

Tgt Ion: 101 Resp: 314952
 Ion Ratio Lower Upper
 101 100
 103 65.1 52.6 79.0





#10

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

Concen: 20.214 ug/L

RT: 2.14 min Scan# 328

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD02067

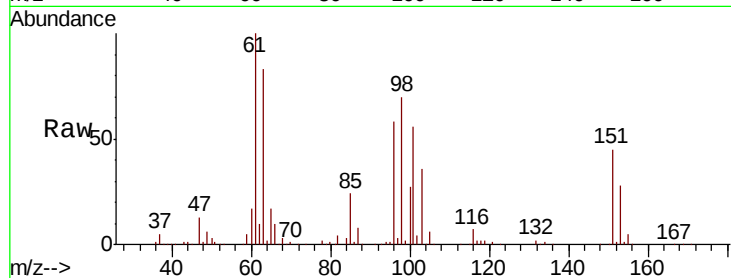
Tgt Ion: 101 Resp: 185876

Ion Ratio Lower Upper

101 100

85 43.4 33.1 49.7

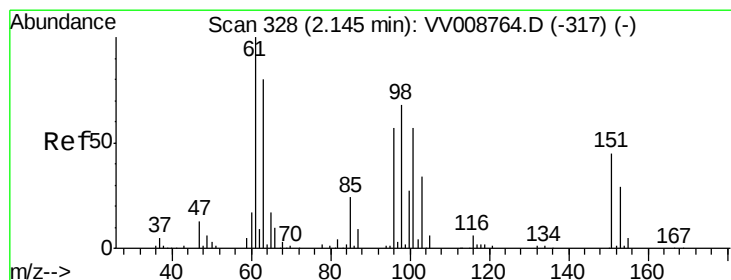
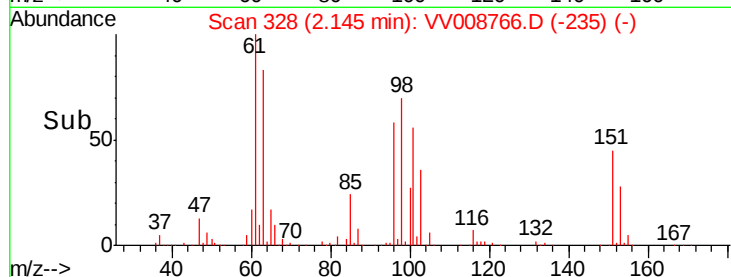
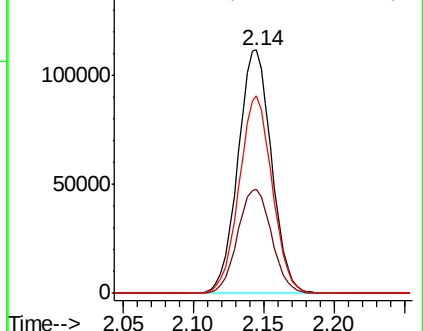
151 80.1 63.8 95.8



Abundance Ion 101.00 (100.70 to 101.70): VV008766.D (-235) (-)

Ion 85.00 (84.70 to 85.70): VV008766.D (-235) (-)

Ion 151.00 (150.70 to 151.70): VV008766.D (-235) (-)



#12

1,1-Dichloroethene

Concen: 20.184 ug/L

RT: 2.14 min Scan# 328

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

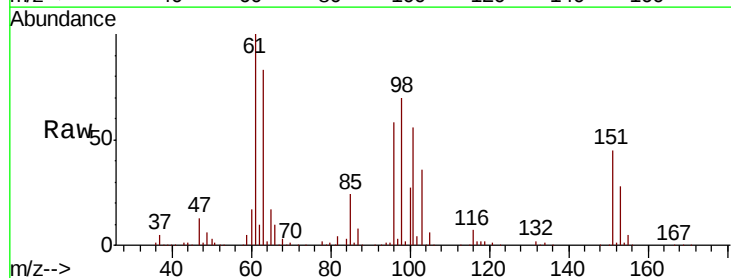
Tgt Ion: 96 Resp: 165314

Ion Ratio Lower Upper

96 100

61 171.0 124.3 230.8

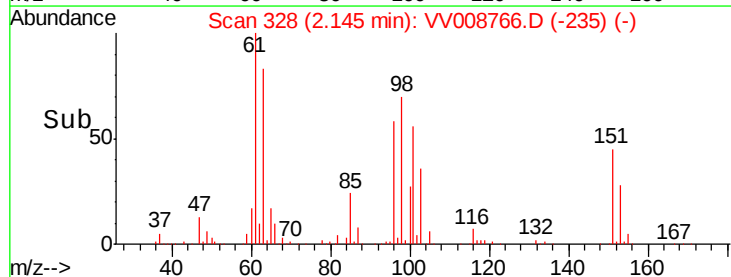
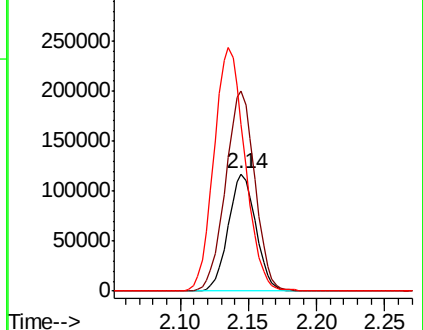
63 141.7 102.6 190.5

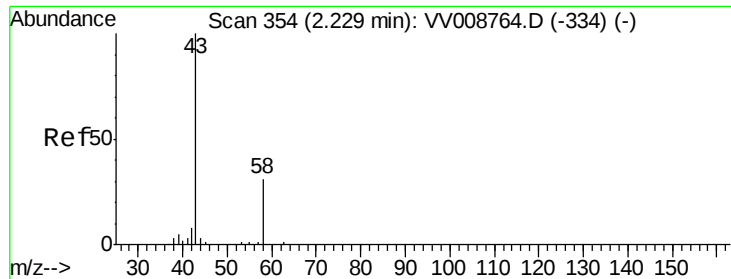


Abundance Ion 96.00 (95.70 to 96.70): VV008766.D (-235) (-)

Ion 61.05 (60.75 to 61.75): VV008766.D (-235) (-)

Ion 63.00 (62.70 to 63.70): VV008766.D (-235) (-)





#13

Acetone

Concen: 199.879 ug/L

RT: 2.22 min Scan# 352

Delta R.T. -0.01 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

Instrument :

MSVOA_V

ClientSampleId :

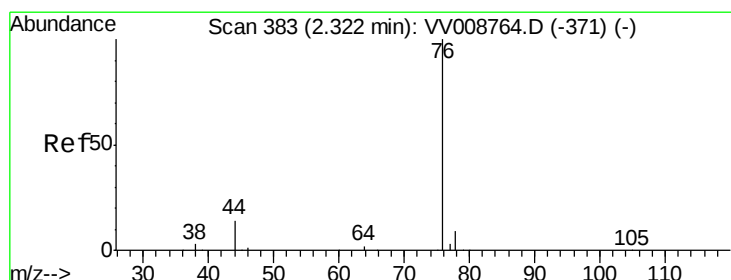
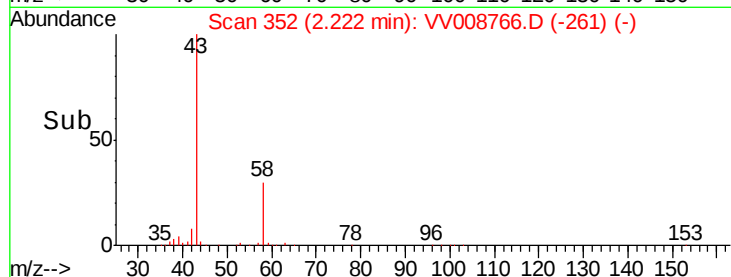
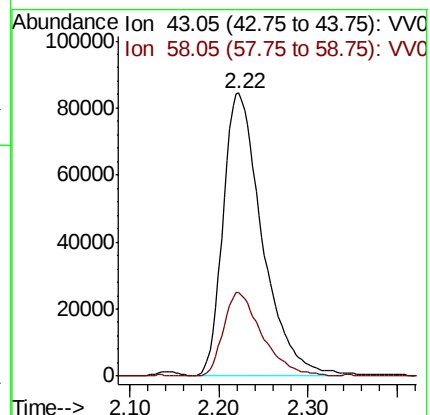
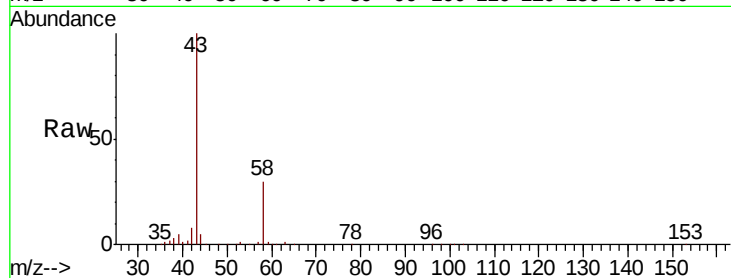
VSTD02067

Tgt Ion: 43 Resp: 255534

Ion Ratio Lower Upper

43 100

58 29.5 0.0 59.8



#14

Carbon disulfide

Concen: 20.366 ug/L

RT: 2.32 min Scan# 383

Delta R.T. -0.00 min

Lab File: VV008766.D

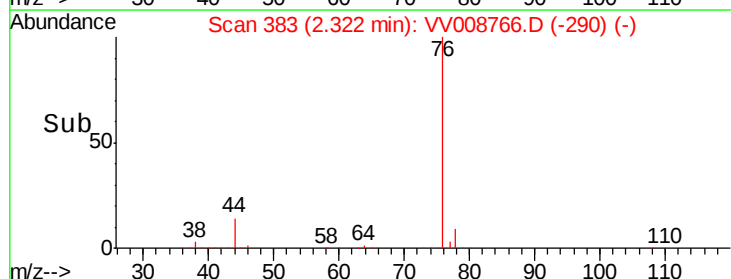
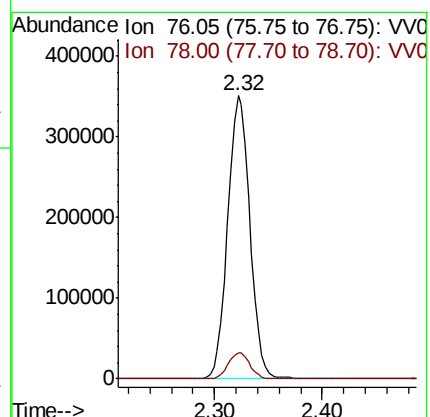
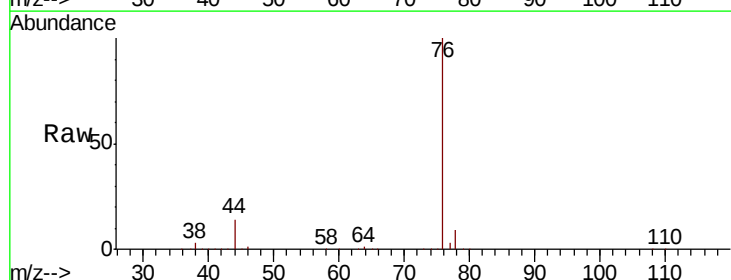
Acq: 29 Nov 2018 16:09

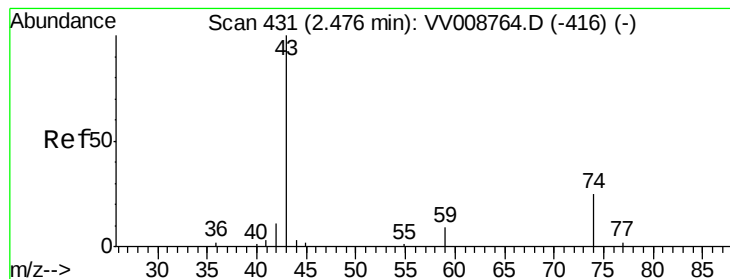
Tgt Ion: 76 Resp: 503943

Ion Ratio Lower Upper

76 100

78 9.4 7.5 11.3





#15

Methyl Acetate

Concen: 18.998 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

Instrument :

MSVOA_V

ClientSampleId :

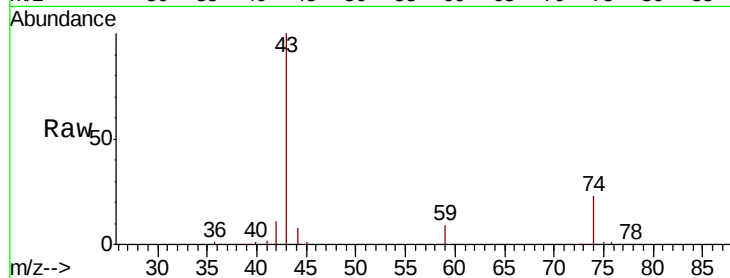
VSTD02067

Tgt Ion: 43 Resp: 62971

Ion Ratio Lower Upper

43 100

74 24.3 20.0 30.0

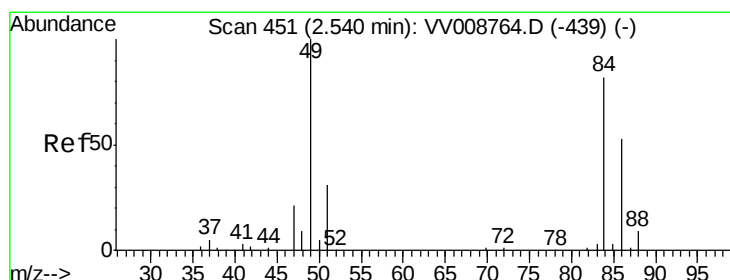
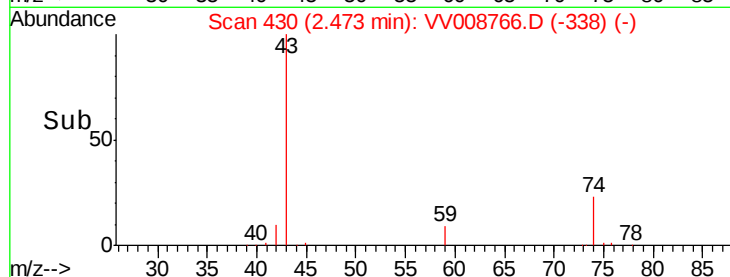


Abundance Ion 43.05 (42.75 to 43.75): VV008766.D (-416) (-)

Ion 74.05 (73.75 to 74.75): VV008766.D (-416) (-)

2.47

Time-->



#16

Methylene chloride

Concen: 18.435 ug/L

RT: 2.54 min Scan# 451

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

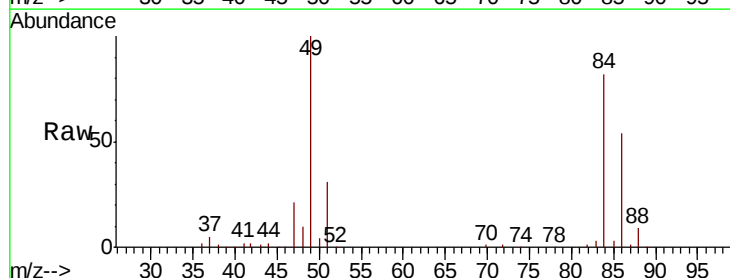
Tgt Ion: 84 Resp: 167382

Ion Ratio Lower Upper

84 100

86 65.2 45.8 85.2

49 121.8 85.9 159.5



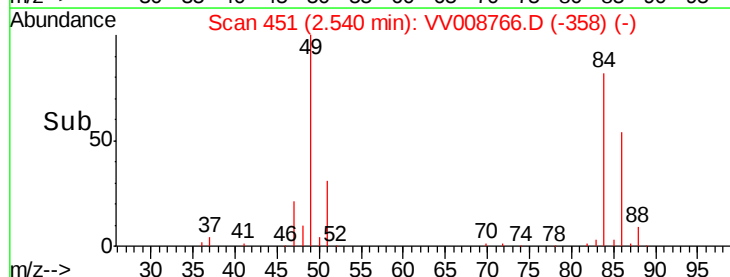
Abundance Ion 84.05 (83.75 to 84.75): VV008766.D (-439) (-)

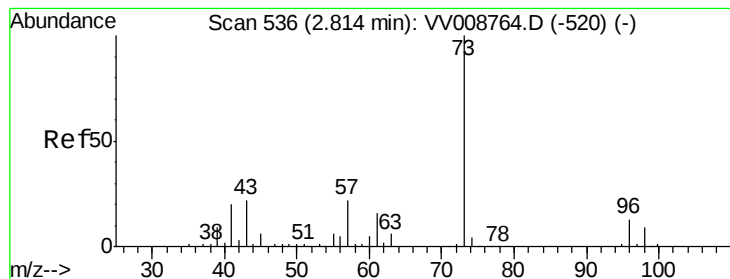
Ion 86.00 (85.70 to 86.70): VV008766.D (-439) (-)

Ion 49.10 (48.80 to 49.80): VV008766.D (-439) (-)

2.54

Time-->





#17

Methyl tert-butyl Ether

Concen: 20.535 ug/L

RT: 2.81 min Scan# 536

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD02067

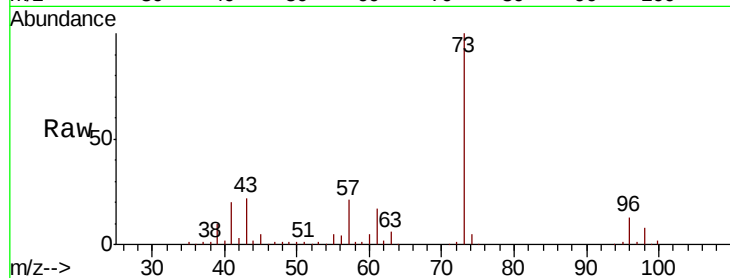
Tgt Ion: 73 Resp: 399803

Ion Ratio Lower Upper

73 100

43 22.1 18.0 27.0

57 21.1 17.2 25.8



Abundance Ion 73.10 (72.80 to 73.80): VV008766.D (-520) (-)

Ion 43.05 (42.75 to 43.75): VV008766.D (-520) (-)

Ion 57.10 (56.80 to 57.80): VV008766.D (-520) (-)

2.81

200000

150000

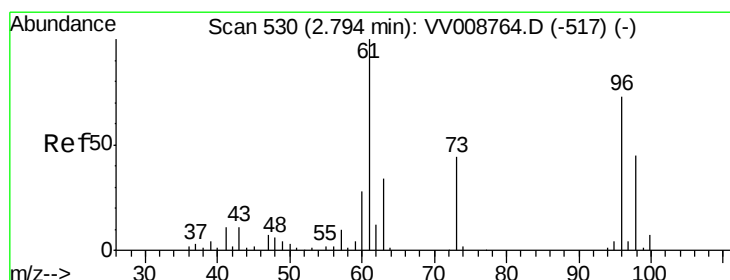
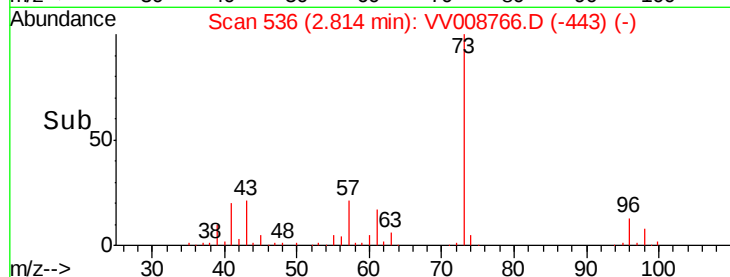
100000

50000

0

Time-->

2.70 2.75 2.80 2.85 2.90



#18

trans-1,2-Dichloroethene

Concen: 20.450 ug/L

RT: 2.79 min Scan# 530

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

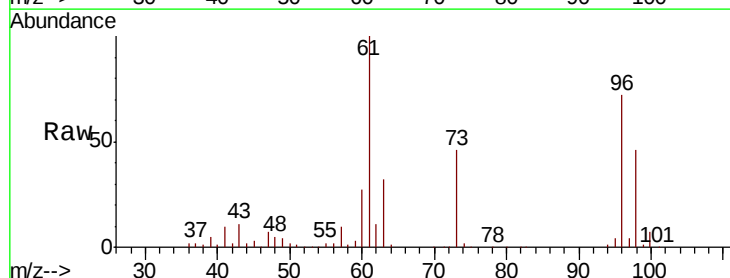
Tgt Ion: 96 Resp: 179793

Ion Ratio Lower Upper

96 100

61 138.3 95.8 177.8

98 63.6 43.3 80.3



Abundance Ion 96.00 (95.70 to 96.70): VV008766.D (-437) (-)

Ion 61.05 (60.75 to 61.75): VV008766.D (-437) (-)

Ion 97.95 (97.65 to 98.65): VV008766.D (-437) (-)

2.79

200000

150000

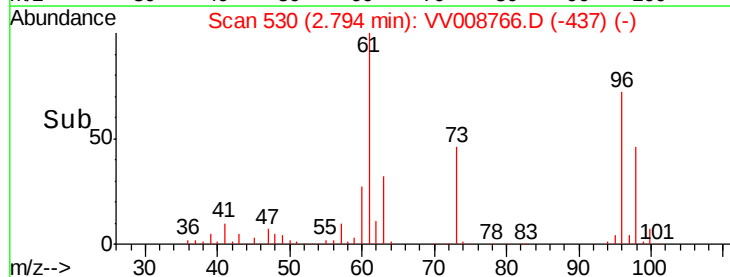
100000

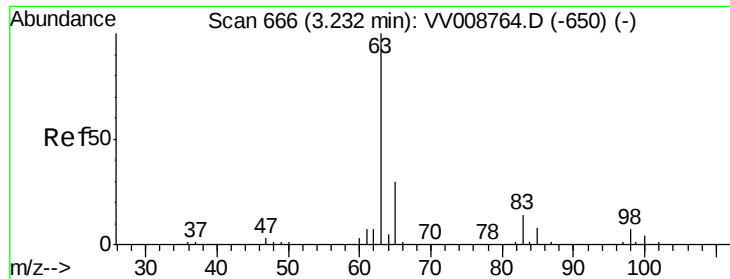
50000

0

Time-->

2.70 2.75 2.80 2.85 2.90





#19

1,1-Dichloroethane

Concen: 19.759 ug/L

RT: 3.23 min Scan# 666

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD02067

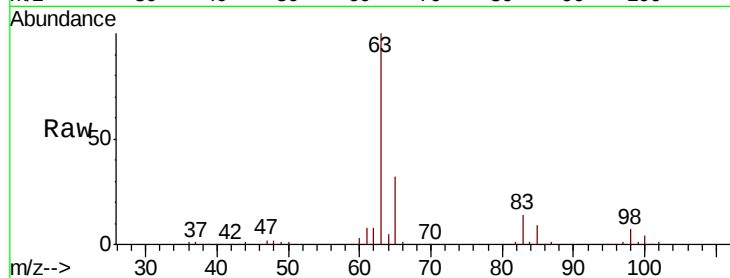
Tgt Ion: 63 Resp: 394266

Ion Ratio Lower Upper

63 100

65 32.2 21.3 39.6

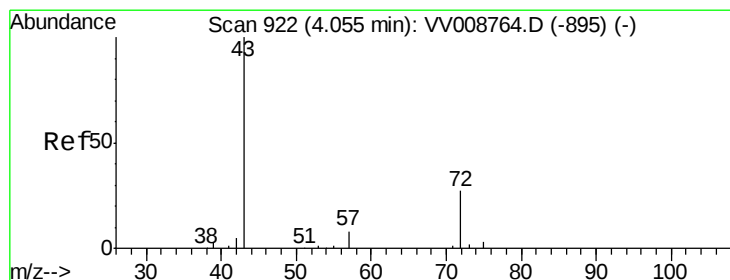
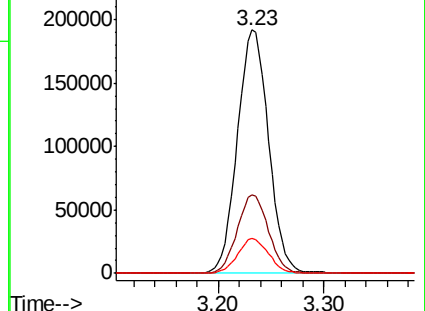
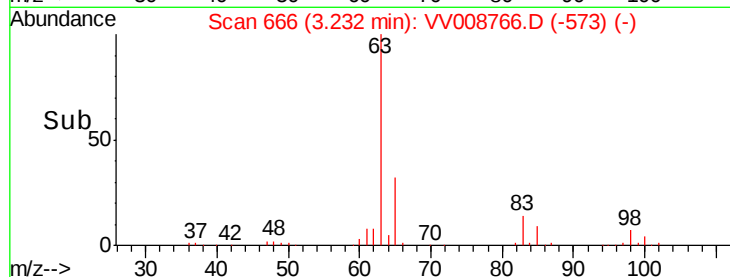
83 14.2 9.9 18.5



Abundance Ion 63.10 (62.80 to 63.80): VV008766.D (-650) (-)

Ion 65.10 (64.80 to 65.80): VV008766.D (-650) (-)

Ion 83.05 (82.75 to 83.75): VV008766.D (-650) (-)



#21

2-Butanone

Concen: 203.825 ug/L

RT: 4.05 min Scan# 920

Delta R.T. -0.01 min

Lab File: VV008766.D

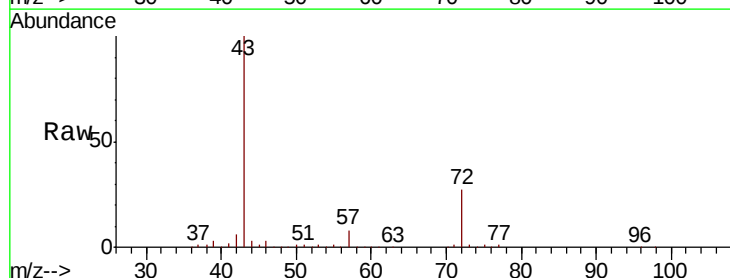
Acq: 29 Nov 2018 16:09

Tgt Ion: 43 Resp: 528680

Ion Ratio Lower Upper

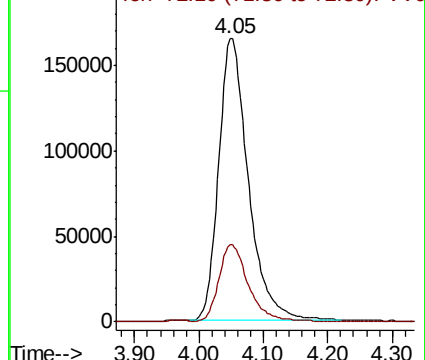
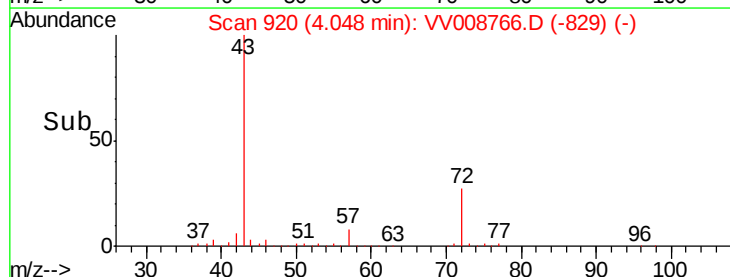
43 100

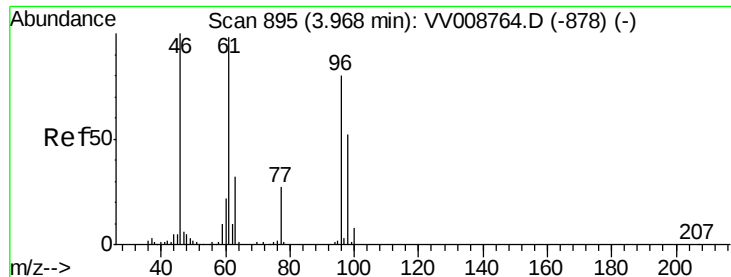
72 27.1 13.6 40.8



Abundance Ion 43.05 (42.75 to 43.75): VV008766.D (-829) (-)

Ion 72.10 (71.80 to 72.80): VV008766.D (-829) (-)



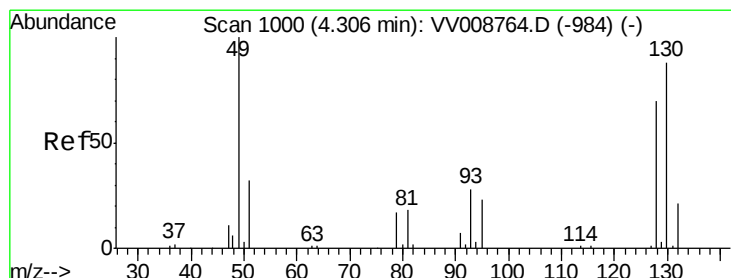
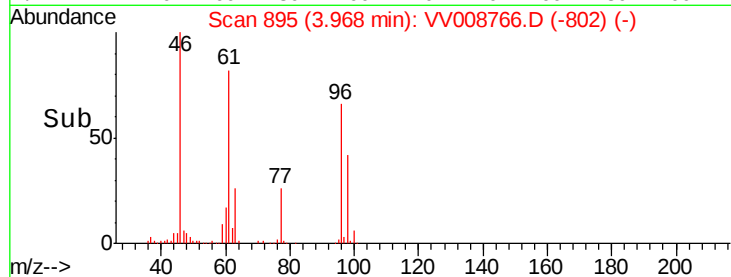
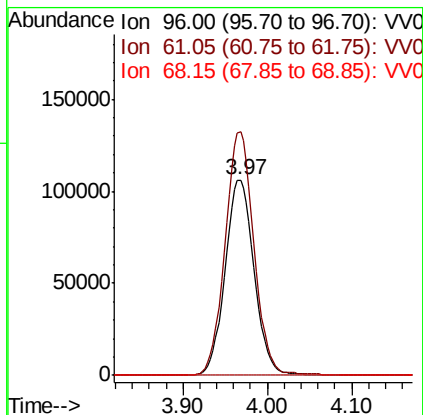
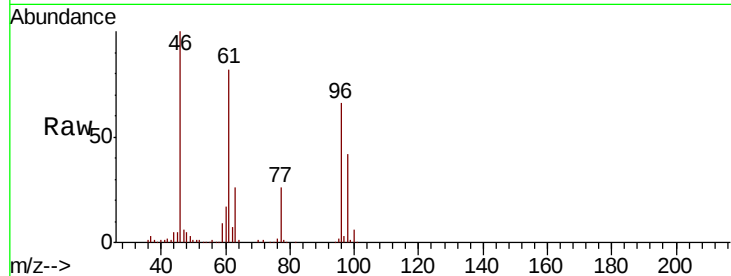


#22

cis-1,2-Dichloroethene
 Concen: 20.668 ug/L
 RT: 3.97 min Scan# 895
 Delta R.T. -0.00 min
 Lab File: VV008766.D
 Acq: 29 Nov 2018 16:09

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02067

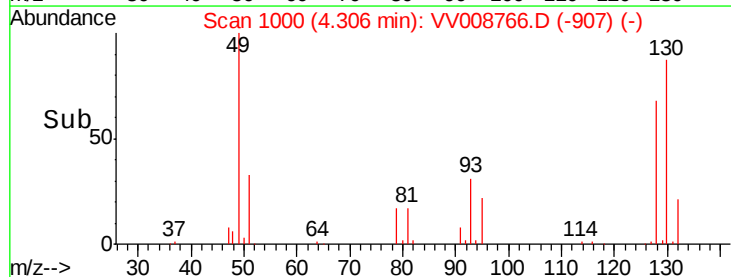
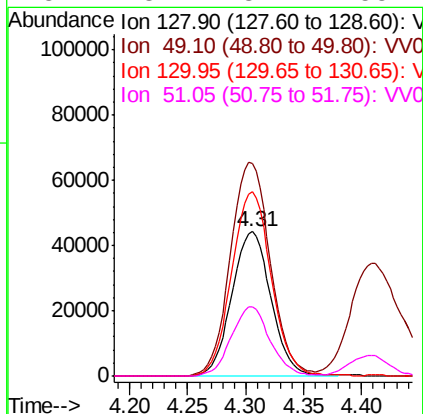
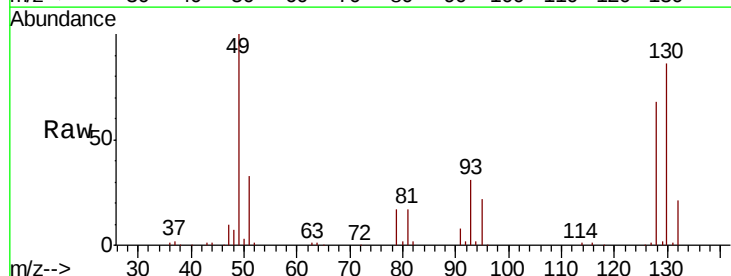
Tgt Ion: 96 Resp: 253950
 Ion Ratio Lower Upper
 96 100
 61 124.8 85.9 159.5
 68 0.0 0.0 0.0

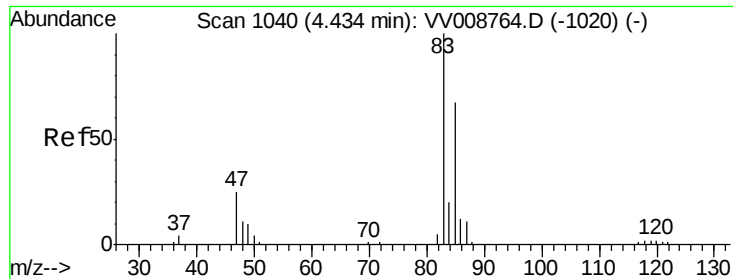


#23

Bromochloromethane
 Concen: 20.571 ug/L
 RT: 4.31 min Scan# 1000
 Delta R.T. -0.00 min
 Lab File: VV008766.D
 Acq: 29 Nov 2018 16:09

Tgt Ion: 128 Resp: 104271
 Ion Ratio Lower Upper
 128 100
 49 147.7 100.4 186.4
 130 127.5 88.5 164.4
 51 48.4 37.1 55.7

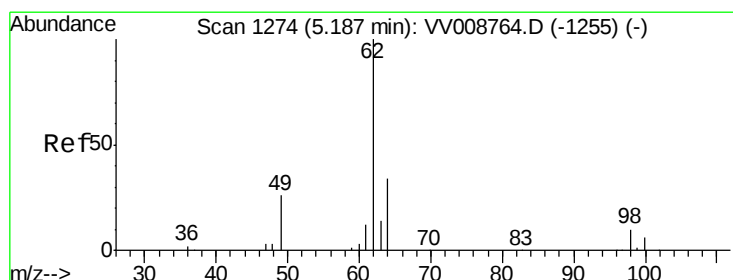
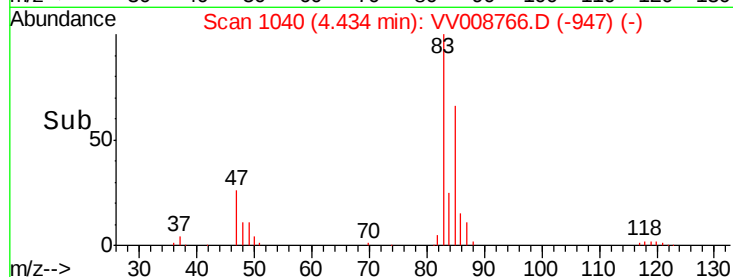
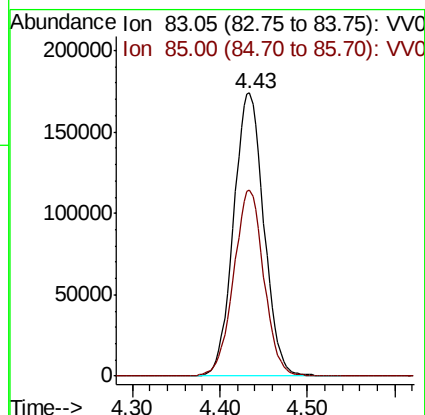
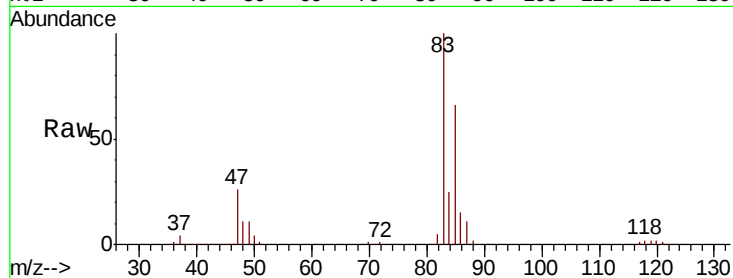




#25
Chloroform
Concen: 19.709 ug/L
RT: 4.43 min Scan# 1040
Delta R.T. -0.00 min
Lab File: VV008766.D
Acq: 29 Nov 2018 16:09

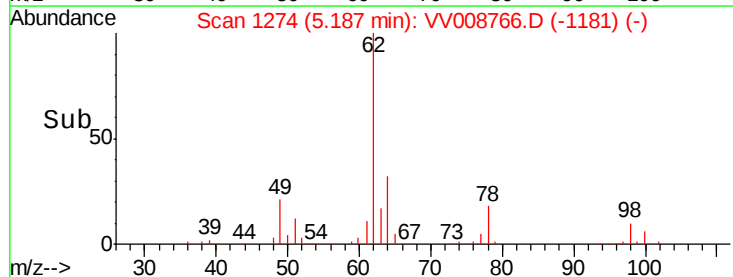
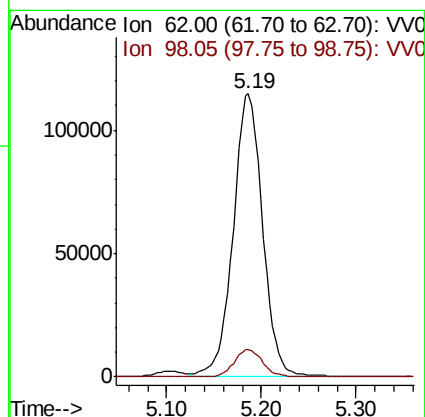
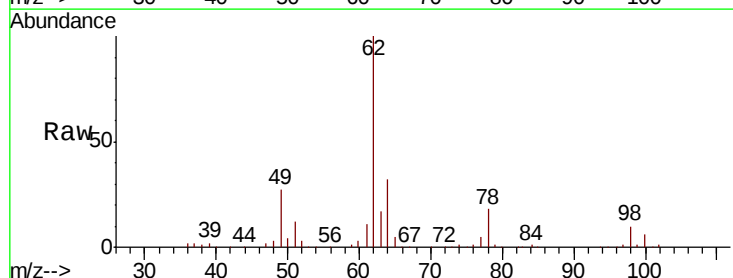
Instrument :
MSVOA_V
ClientSampleId :
VSTD02067

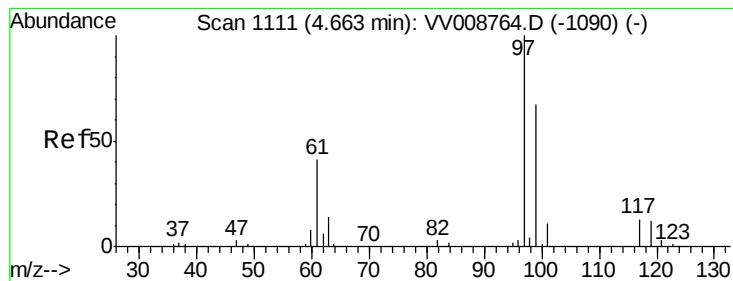
Tgt Ion: 83 Resp: 418349
Ion Ratio Lower Upper
83 100
85 65.7 47.0 87.4



#27
1,2-Dichloroethane
Concen: 20.528 ug/L
RT: 5.19 min Scan# 1274
Delta R.T. -0.00 min
Lab File: VV008766.D
Acq: 29 Nov 2018 16:09

Tgt Ion: 62 Resp: 247274
Ion Ratio Lower Upper
62 100
98 9.6 7.7 11.5





#29

1,1,1-Trichloroethane

Concen: 20.993 ug/L

RT: 4.66 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD02067

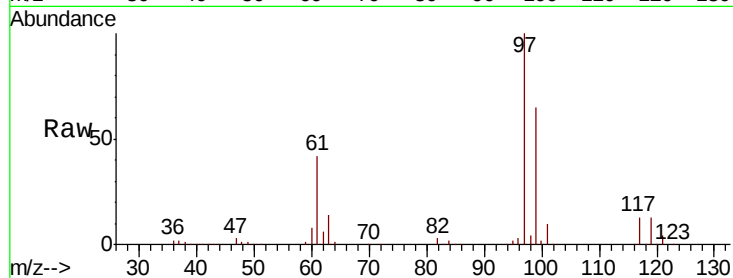
Tgt Ion: 97 Resp: 371970

Ion Ratio Lower Upper

97 100

99 63.8 52.1 78.1

61 41.7 33.9 50.9

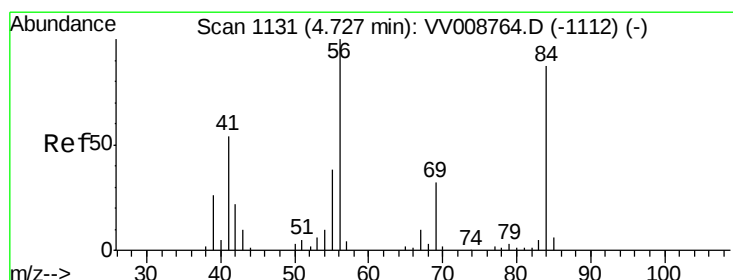
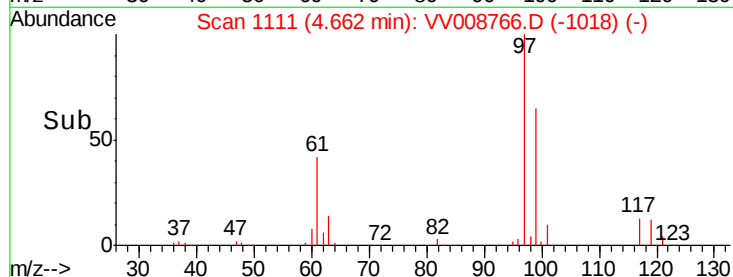
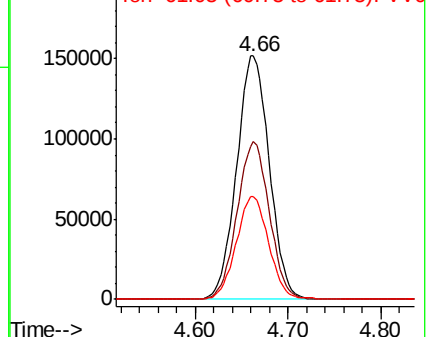


Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0



#30

Cyclohexane

Concen: 20.787 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

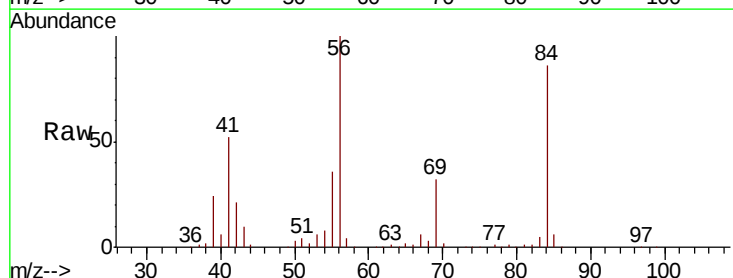
Tgt Ion: 56 Resp: 392071

Ion Ratio Lower Upper

56 100

69 31.4 25.1 37.7

84 87.5 70.8 106.2

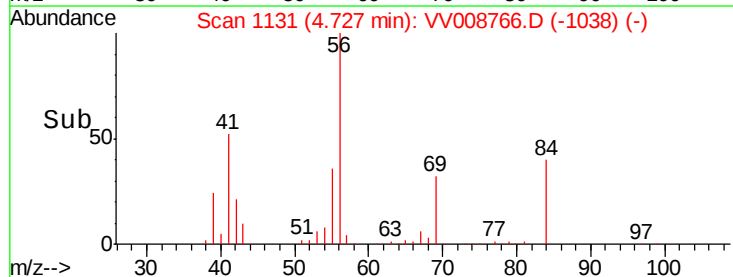
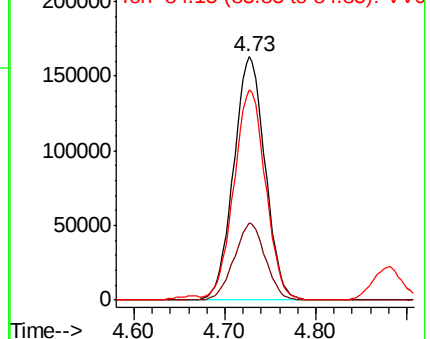


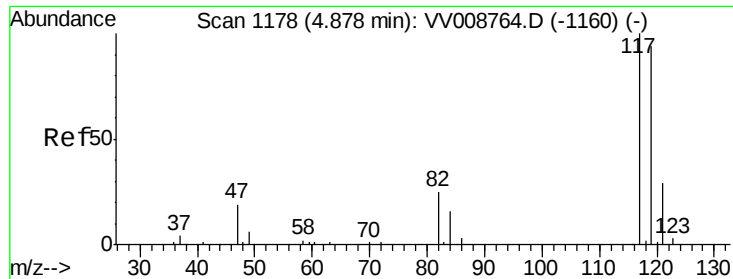
Abundance

Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 21.872 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

Instrument :

MSVOA_V

ClientSampleId :

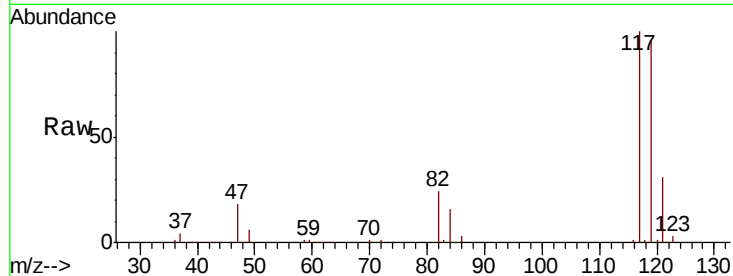
VSTD02067

Tgt Ion:117 Resp: 327028

Ion Ratio Lower Upper

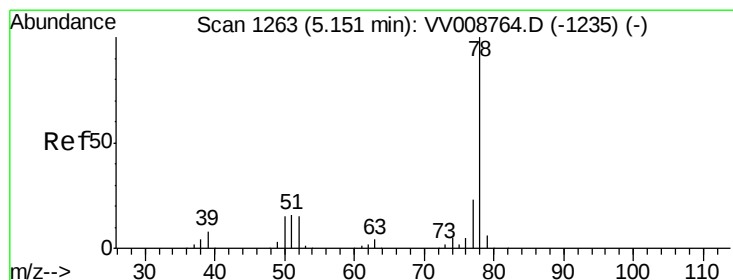
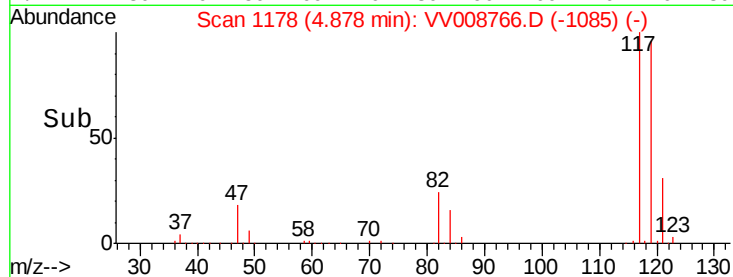
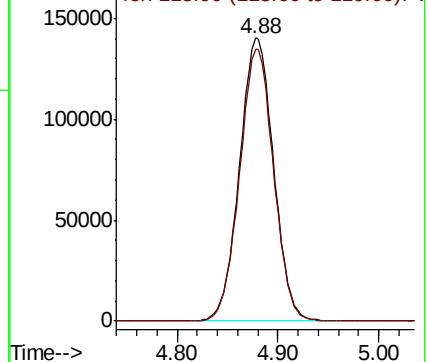
117 100

119 95.9 77.7 116.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 20.102 ug/L

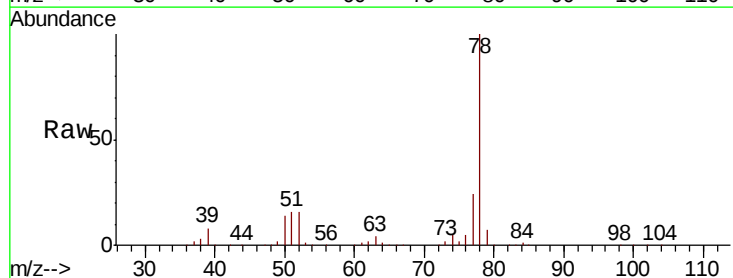
RT: 5.15 min Scan# 1263

Delta R.T. -0.00 min

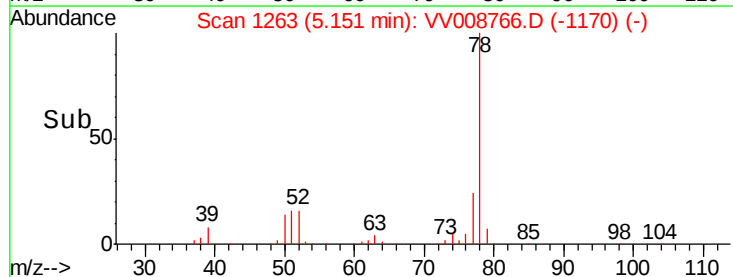
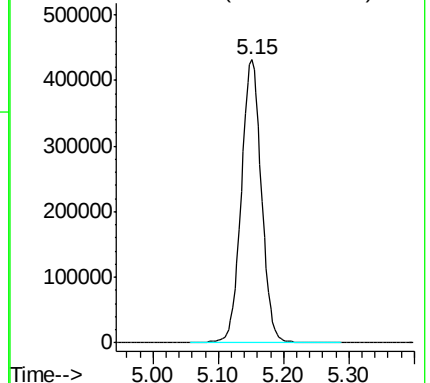
Lab File: VV008766.D

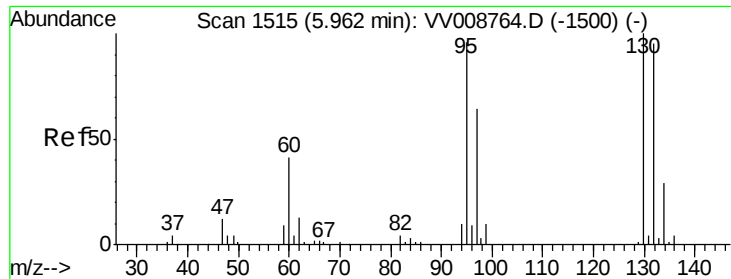
Acq: 29 Nov 2018 16:09

Tgt Ion: 78 Resp: 925582



Abundance Ion 78.10 (77.80 to 78.80): VV0

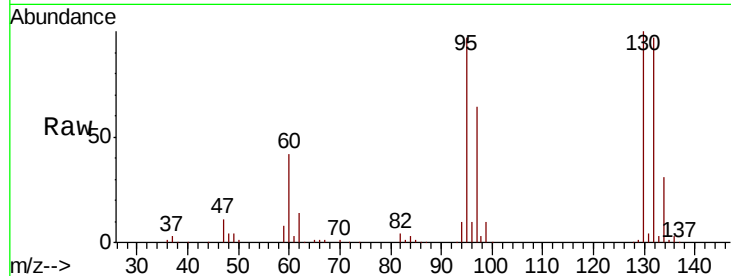




#34
 Trichloroethene
 Concen: 20.178 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. -0.00 min
 Lab File: VV008766.D
 Acq: 29 Nov 2018 16:09

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02067

Tgt Ion:	95	Resp:	255065
Ion	Ratio	Lower	Upper
95	100		
97	65.7	46.5	86.3
132	99.2	69.4	128.8
130	102.8	73.1	135.8



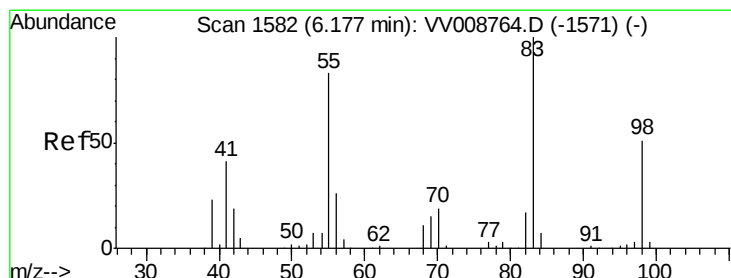
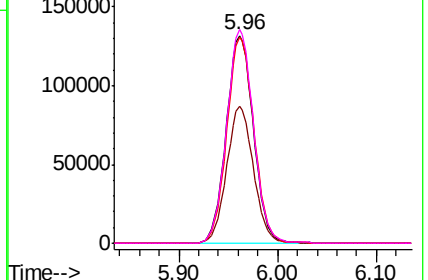
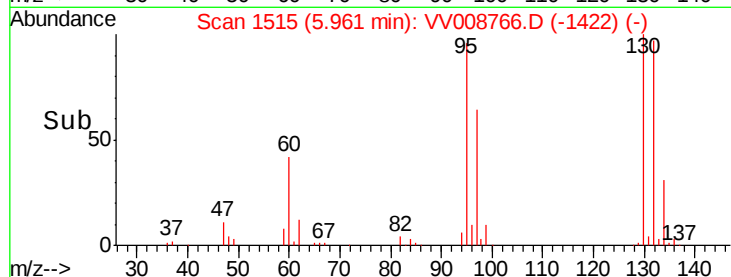
Abundance

Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

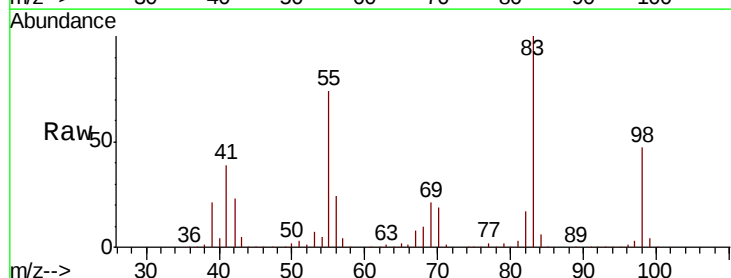
Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35
 Methylcyclohexane
 Concen: 21.321 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VV008766.D
 Acq: 29 Nov 2018 16:09

Tgt Ion:	83	Resp:	429326
Ion	Ratio	Lower	Upper
83	100		
55	74.1	60.1	90.1
98	47.4	37.4	56.2

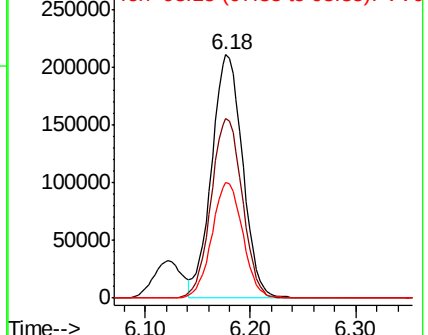
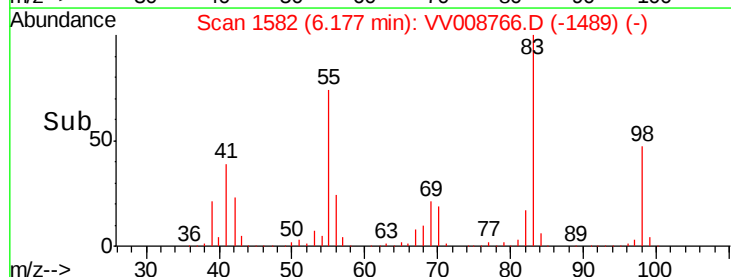


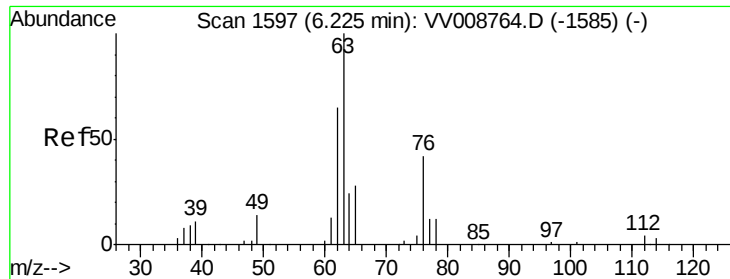
Abundance

Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 20.492 ug/L

RT: 6.23 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

Instrument :

MSVOA_V

ClientSampleId :

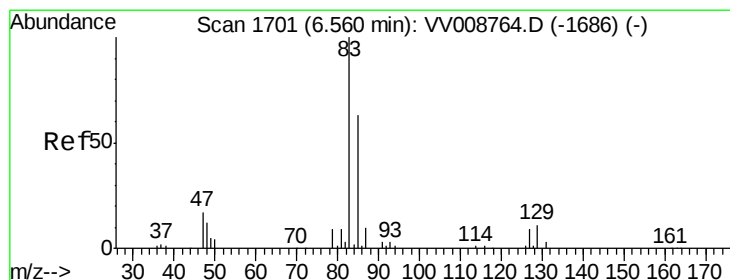
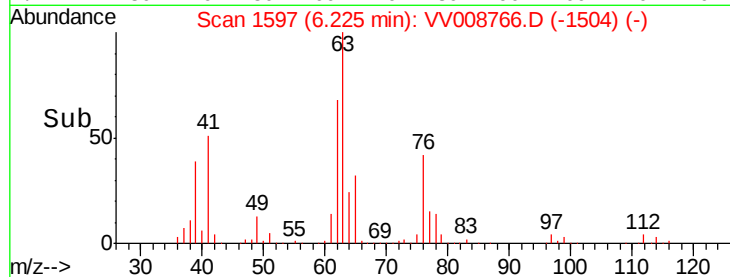
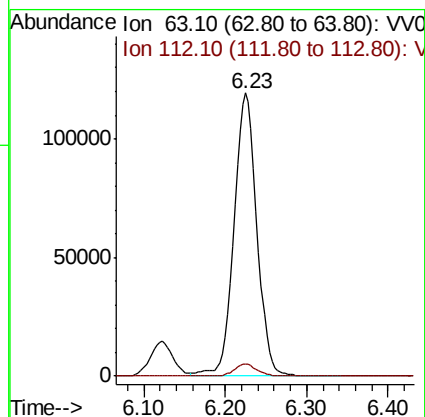
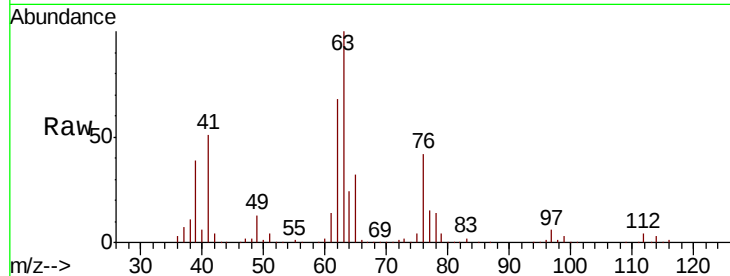
VSTD02067

Tgt Ion: 63 Resp: 233459

Ion Ratio Lower Upper

63 100

112 4.2 3.5 5.3



#38

Bromodichloromethane

Concen: 21.520 ug/L

RT: 6.56 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

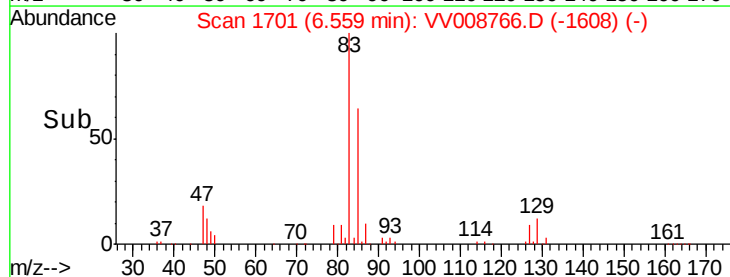
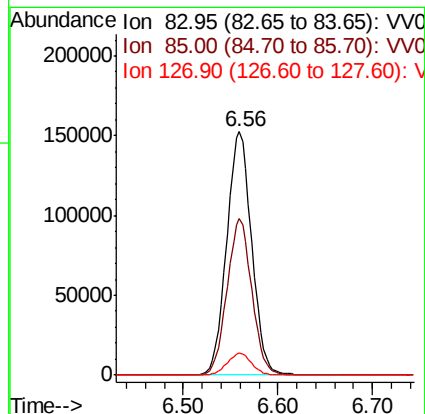
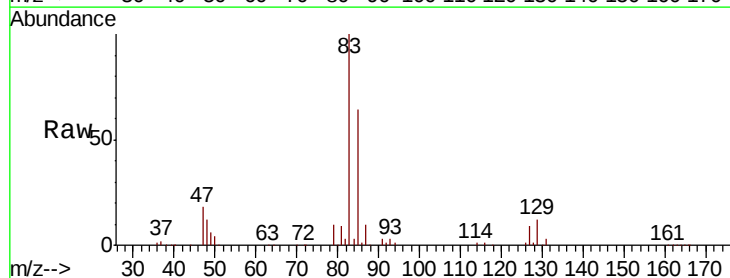
Tgt Ion: 83 Resp: 279734

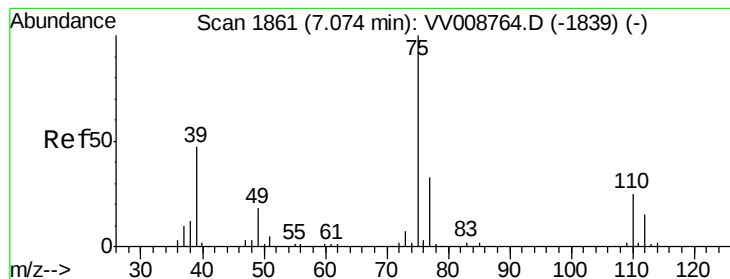
Ion Ratio Lower Upper

83 100

85 64.1 44.4 82.4

127 9.0 6.9 10.3



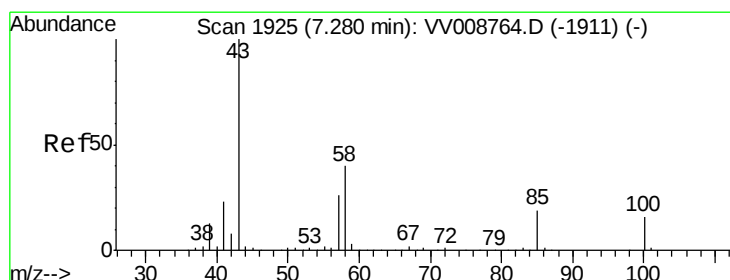
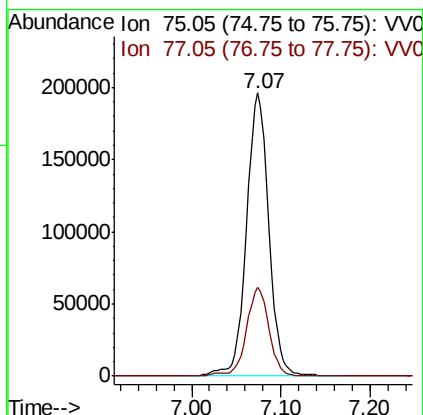
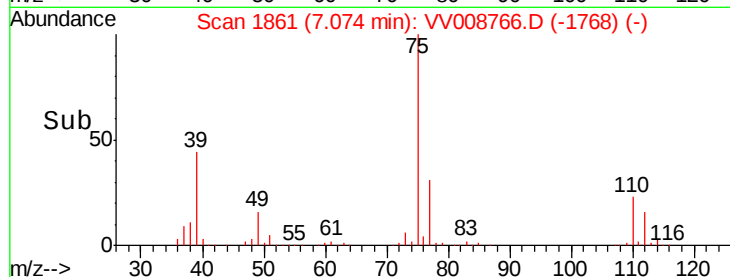
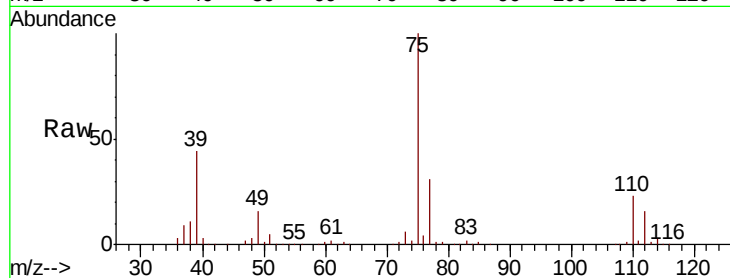


#39

cis-1,3-Dichloropropene
Concen: 22.533 ug/L
RT: 7.07 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VV008766.D
Acq: 29 Nov 2018 16:09

Instrument :
MSVOA_V
ClientSampleId :
VSTD02067

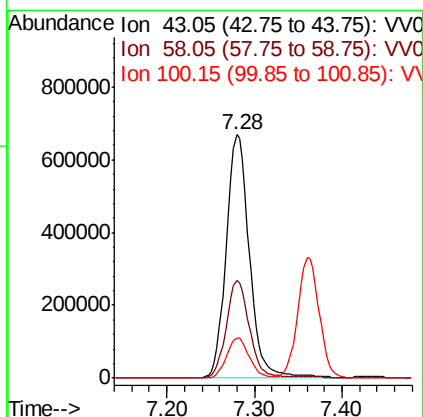
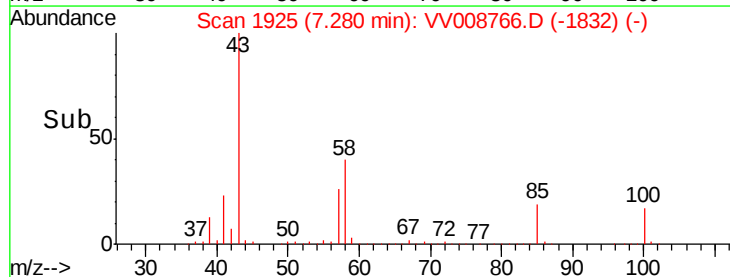
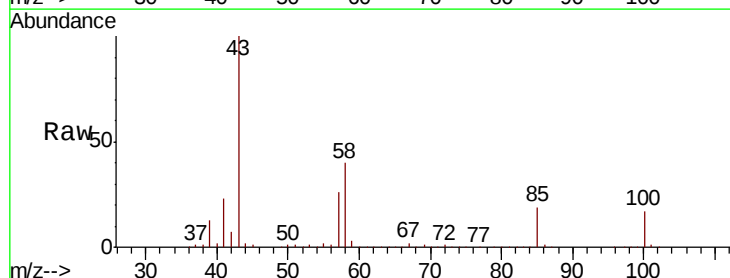
Tgt Ion: 75 Resp: 342212
Ion Ratio Lower Upper
75 100
77 31.2 22.8 42.4

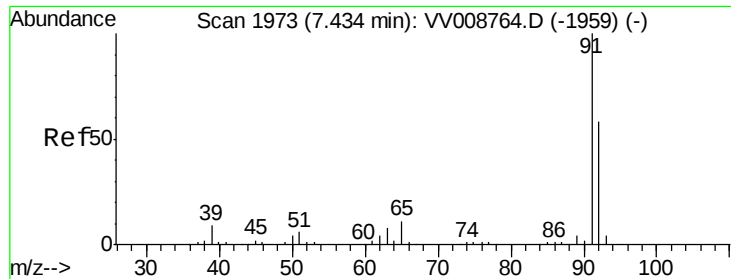


#40

4-Methyl-2-pentanone
Concen: 207.194 ug/L
RT: 7.28 min Scan# 1925
Delta R.T. -0.00 min
Lab File: VV008766.D
Acq: 29 Nov 2018 16:09

Tgt Ion: 43 Resp: 1239309
Ion Ratio Lower Upper
43 100
58 39.6 31.3 46.9
100 16.0 12.6 19.0





#42

Toluene

Concen: 20.858 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

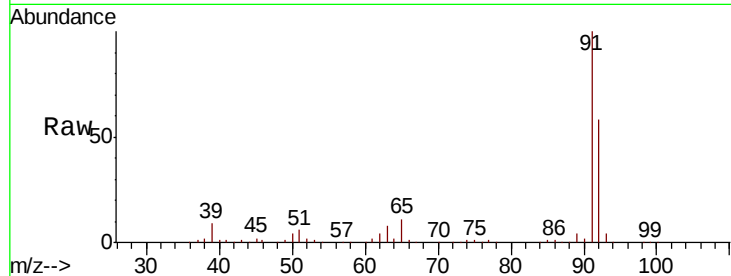
Instrument :
MSVOA_V
ClientSampleId :
VSTD02067

Tgt Ion: 91 Resp: 993073

Ion Ratio Lower Upper

91 100

92 57.9 40.5 75.3



Abundance Ion 91.15 (90.85 to 91.85): VV008766.D (-1959) (-)

Ion 92.15 (91.85 to 92.85): VV008766.D (-1959) (-)

7.43

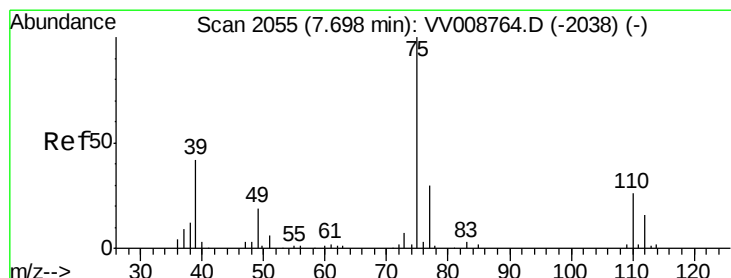
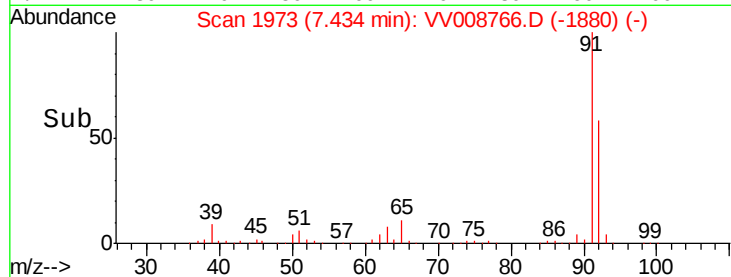
600000

400000

200000

0

Time--> 7.30 7.40 7.50 7.60



#44

trans-1,3-Dichloropropene

Concen: 22.981 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. -0.00 min

Lab File: VV008766.D

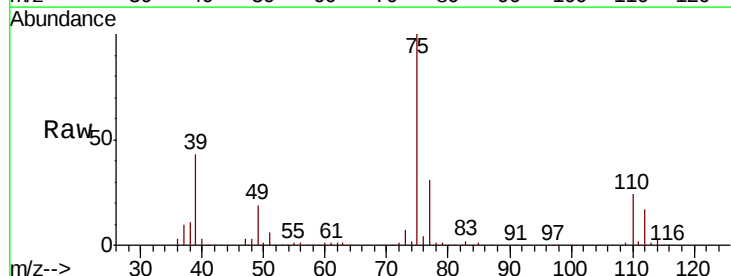
Acq: 29 Nov 2018 16:09

Tgt Ion: 75 Resp: 273010

Ion Ratio Lower Upper

75 100

77 31.5 21.3 39.5



Abundance Ion 75.05 (74.75 to 75.75): VV008766.D (-2038) (-)

Ion 77.05 (76.75 to 77.75): VV008766.D (-2038) (-)

7.70

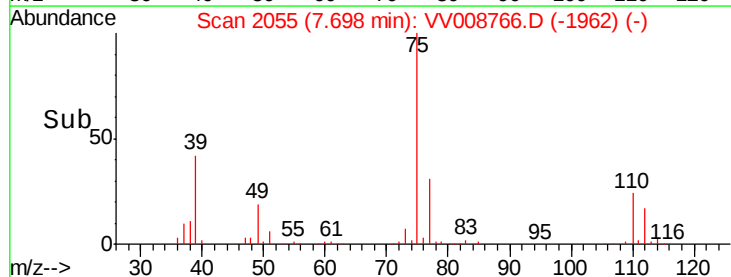
150000

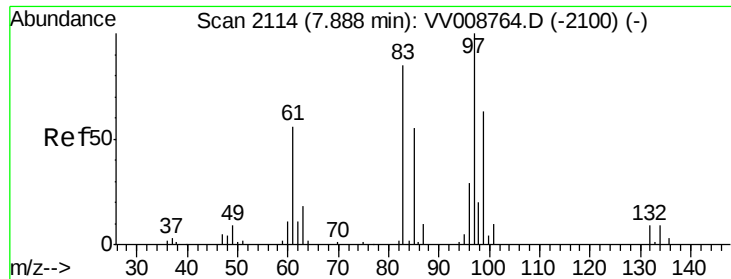
100000

50000

0

Time--> 7.60 7.70 7.80 7.90

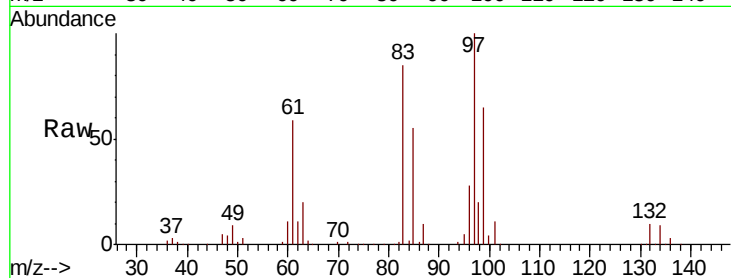




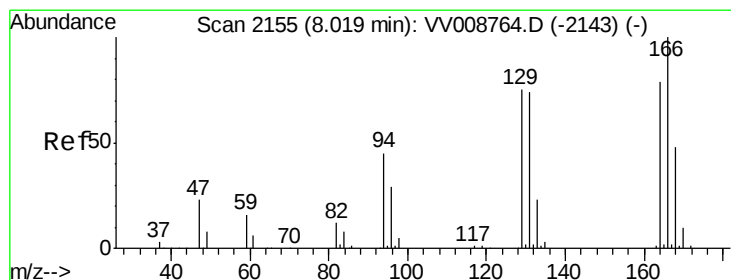
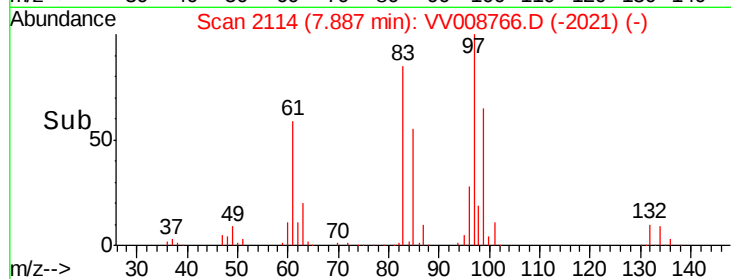
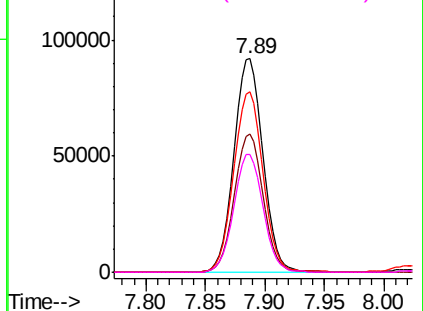
#45
 1,1,2-Trichloroethane
 Concen: 20.310 ug/L
 RT: 7.89 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VV008766.D
 Acq: 29 Nov 2018 16:09

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02067

Tgt Ion:	97	Resp:	155155
Ion	Ratio	Lower	Upper
97	100		
99	64.7	44.2	82.2
83	84.7	59.6	110.6
85	55.0	38.8	72.0

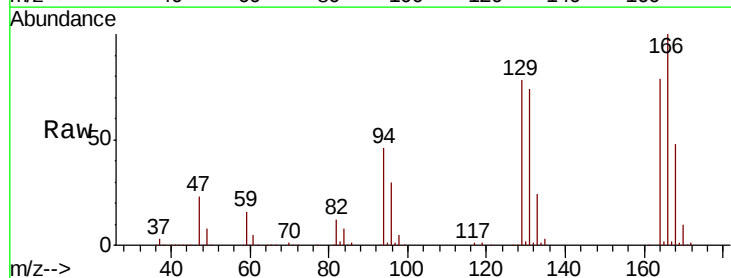


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

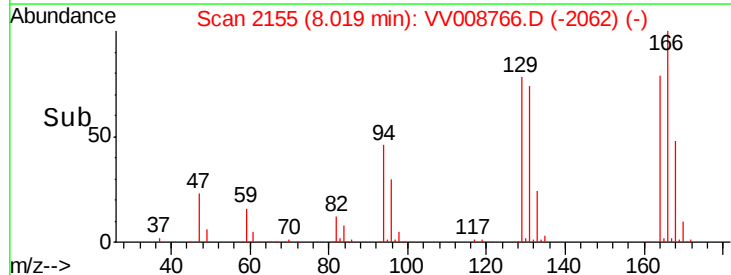
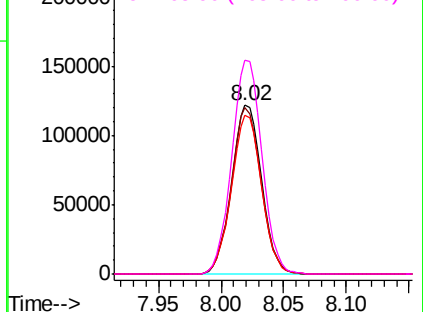


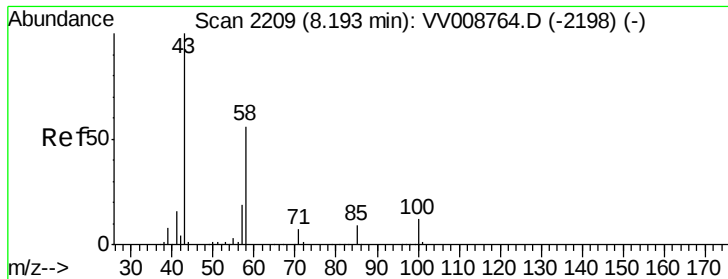
#47
 Tetrachloroethene
 Concen: 21.125 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. -0.00 min
 Lab File: VV008766.D
 Acq: 29 Nov 2018 16:09

Tgt Ion:	164	Resp:	201965
Ion	Ratio	Lower	Upper
164	100		
129	98.8	67.5	125.3
131	94.0	65.9	122.5
166	126.4	89.2	165.6



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

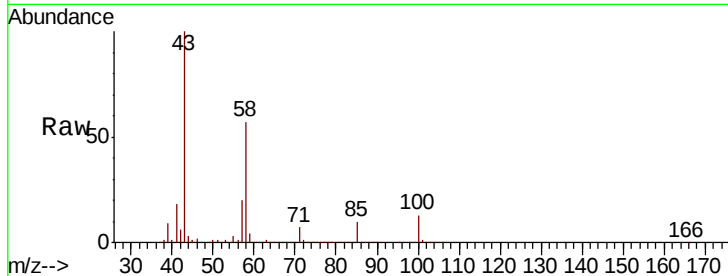




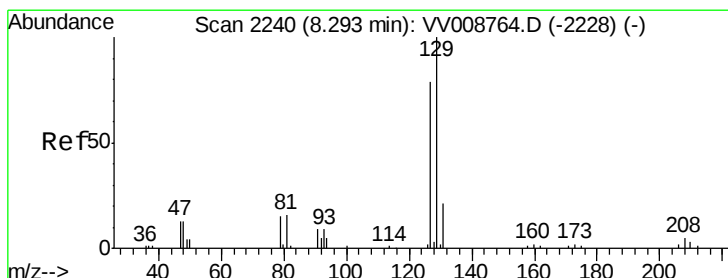
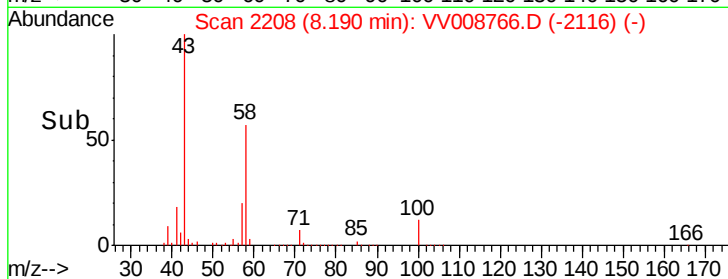
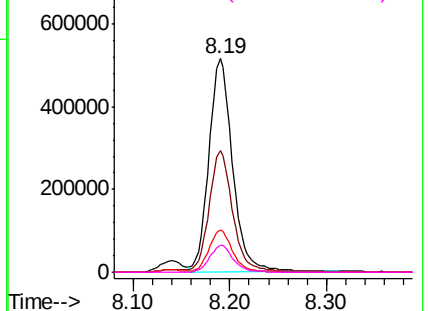
#48
2-Hexanone
Concen: 211.243 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. -0.00 min
Lab File: VV008766.D
Acq: 29 Nov 2018 16:09

Instrument :
MSVOA_V
ClientSampleId :
VSTD02067

Tgt Ion:	43	Resp:	879791
Ion	Ratio	Lower	Upper
43	100		
58	56.0	44.5	66.7
57	19.6	15.2	22.8
100	12.6	9.6	14.4

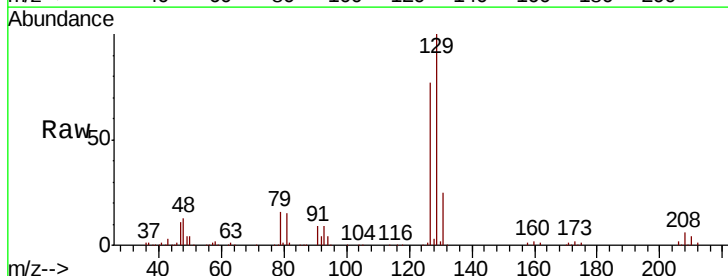


Abundance Ion 43.05 (42.75 to 43.75): VV008766.D (-2198) (-)
Ion 58.05 (57.75 to 58.75): VV008766.D (-2198) (-)
Ion 57.20 (56.90 to 57.90): VV008766.D (-2198) (-)
Ion 100.15 (99.85 to 100.85): VV008766.D (-2198) (-)

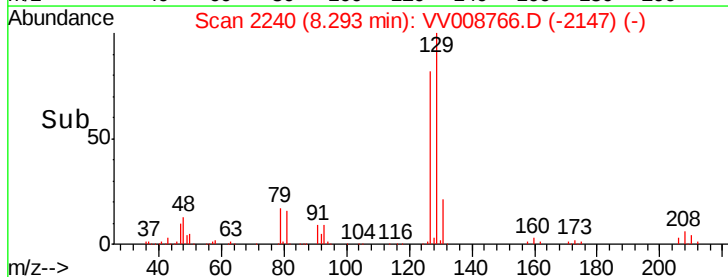
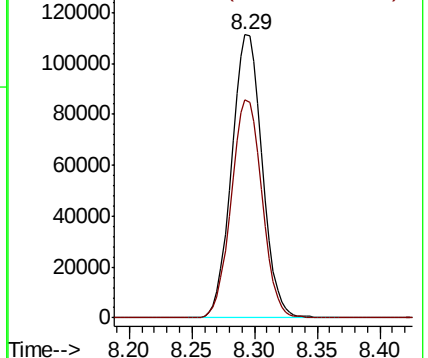


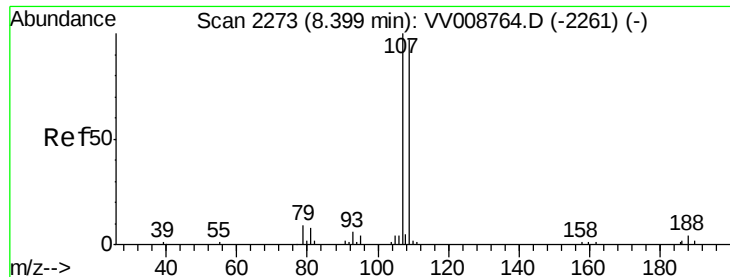
#49
Dibromochloromethane
Concen: 23.321 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. -0.00 min
Lab File: VV008766.D
Acq: 29 Nov 2018 16:09

Tgt Ion:	129	Resp:	188814
Ion	Ratio	Lower	Upper
129	100		
127	77.2	55.3	102.7



Abundance Ion 128.95 (128.65 to 129.65): VV008766.D (-2228) (-)
Ion 126.90 (126.60 to 127.60): VV008766.D (-2228) (-)

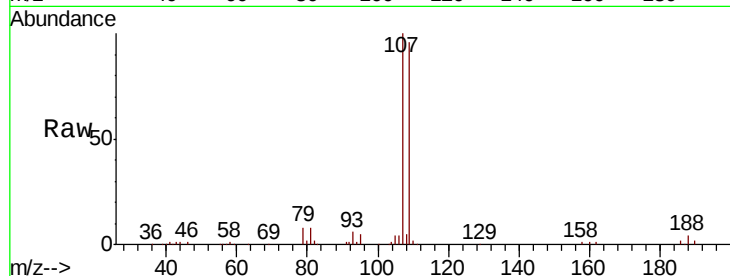




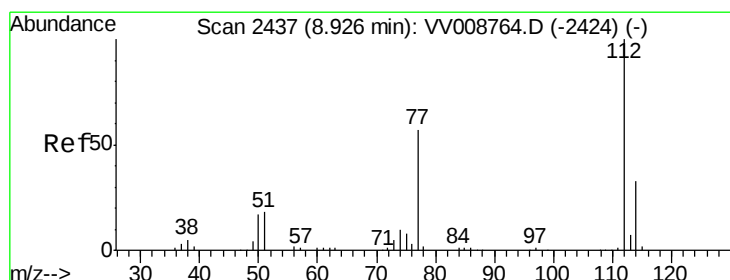
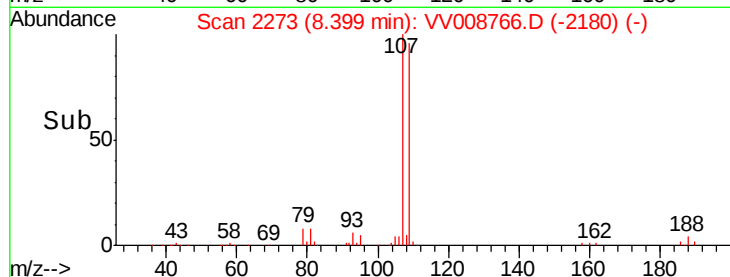
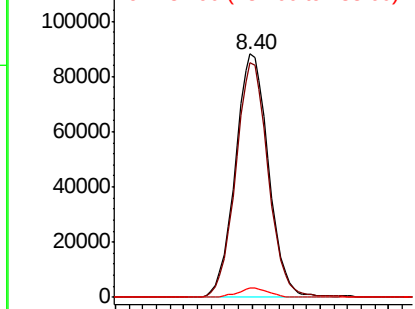
#50
1,2-Dibromoethane
Concen: 21.690 ug/L
RT: 8.40 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VV008766.D
Acq: 29 Nov 2018 16:09

Instrument :
MSVOA_V
ClientSampleId :
VSTD02067

Tgt Ion:107 Resp: 148788
Ion Ratio Lower Upper
107 100
109 96.4 67.8 126.0
188 3.6 3.1 4.7

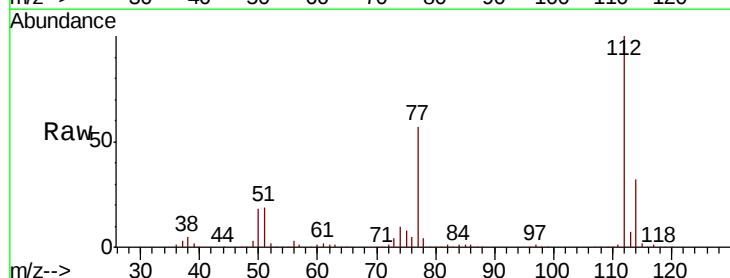


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

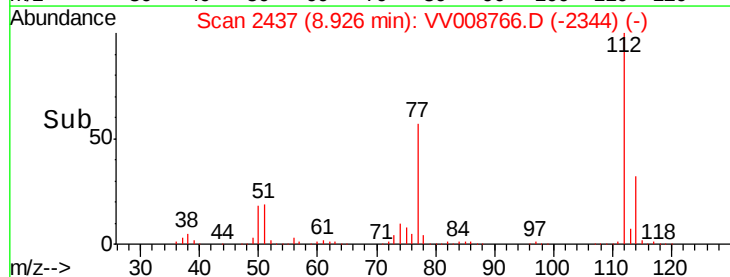
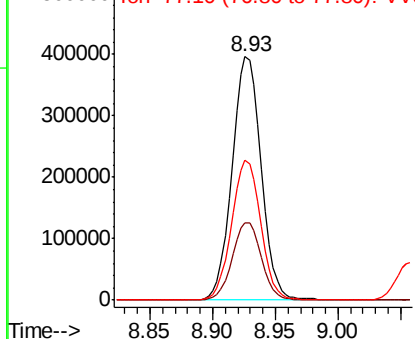


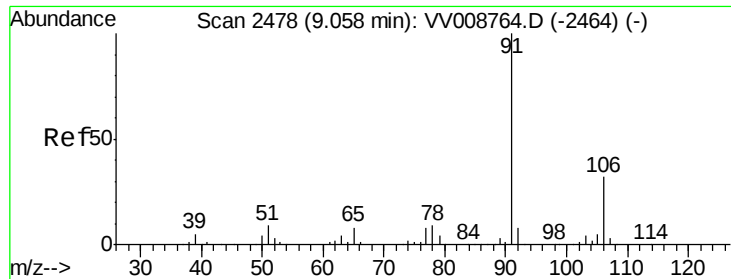
#51
Chlorobenzene
Concen: 18.538 ug/L
RT: 8.93 min Scan# 2437
Delta R.T. -0.00 min
Lab File: VV008766.D
Acq: 29 Nov 2018 16:09

Tgt Ion:112 Resp: 638002
Ion Ratio Lower Upper
112 100
114 31.9 22.8 42.4
77 57.3 46.2 69.4



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 21.333 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

Instrument :

MSVOA_V

ClientSampleId :

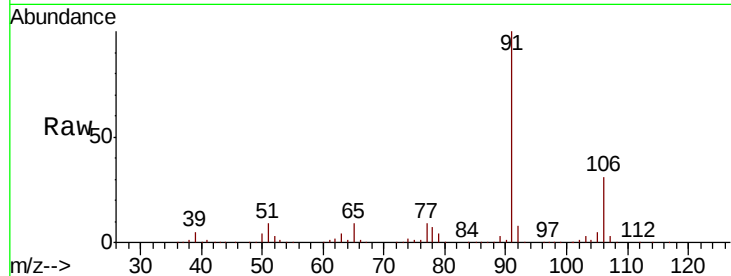
VSTD02067

Tgt Ion: 91 Resp: 1105430

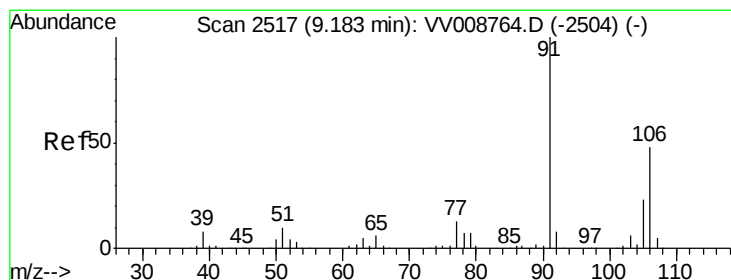
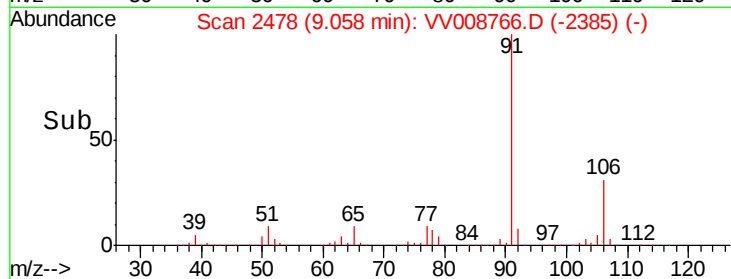
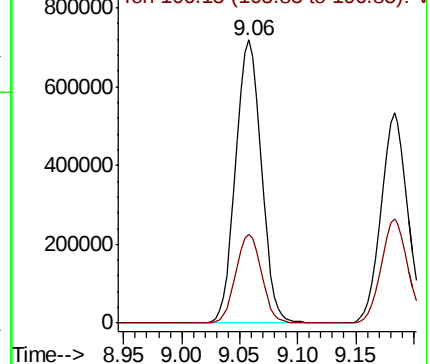
Ion Ratio Lower Upper

91 100

106 31.5 22.4 41.6



Abundance Ion 91.15 (90.85 to 91.85): VV008766.D (-2464) (-)



#53

m,p-xylene

Concen: 21.870 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV008766.D

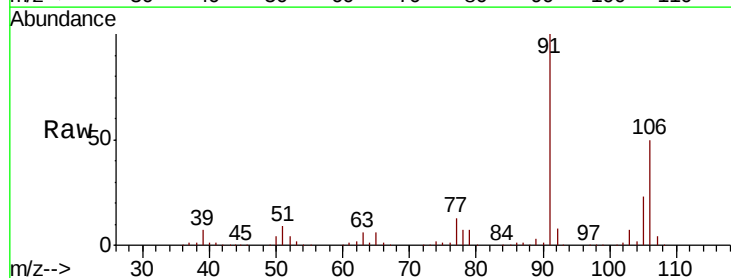
Acq: 29 Nov 2018 16:09

Tgt Ion: 106 Resp: 424996

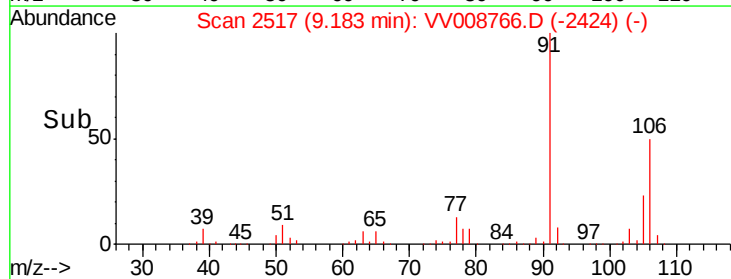
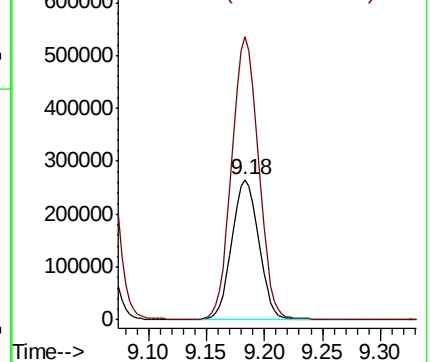
Ion Ratio Lower Upper

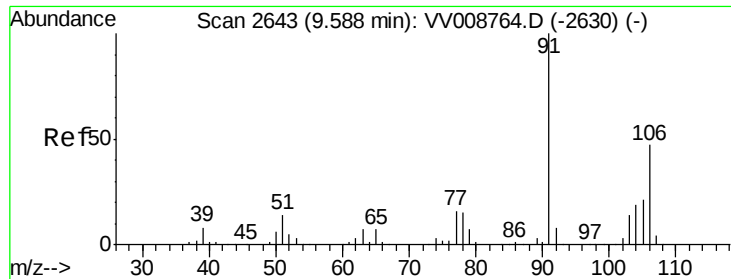
106 100

91 201.5 145.5 270.3



Abundance Ion 106.15 (105.85 to 106.85): VV008766.D (-2504) (-)





#54

o-xylene

Concen: 21.567 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

Instrument :

MSVOA_V

ClientSampleId :

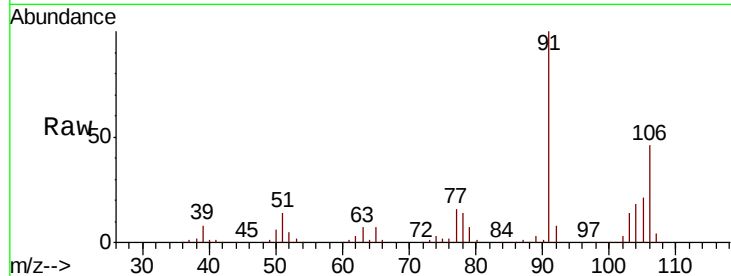
VSTD02067

Tgt Ion:106 Resp: 405586

Ion Ratio Lower Upper

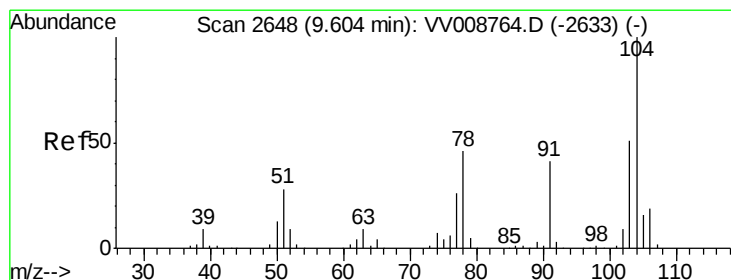
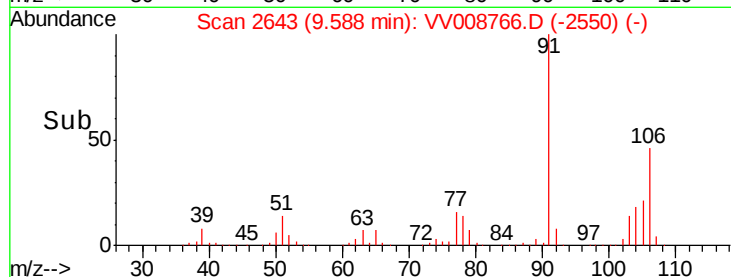
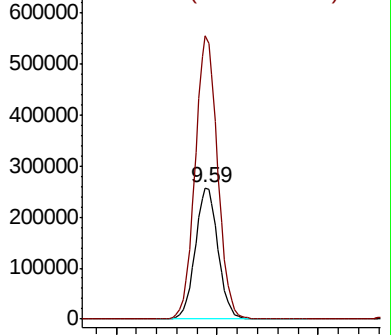
106 100

91 215.1 148.7 276.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 22.248 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV008766.D

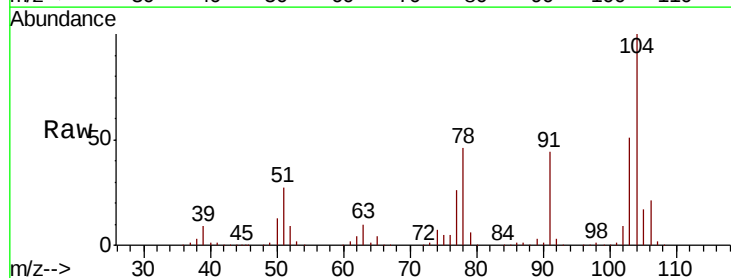
Acq: 29 Nov 2018 16:09

Tgt Ion:104 Resp: 686310

Ion Ratio Lower Upper

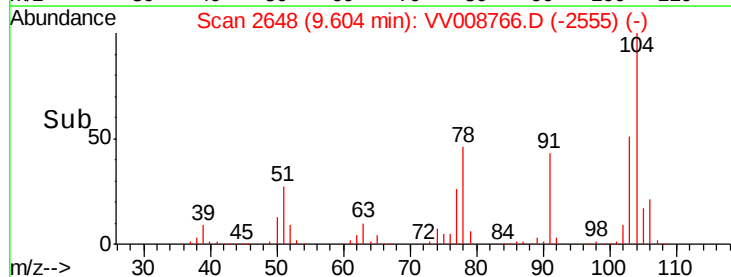
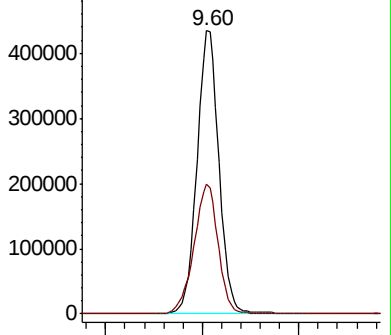
104 100

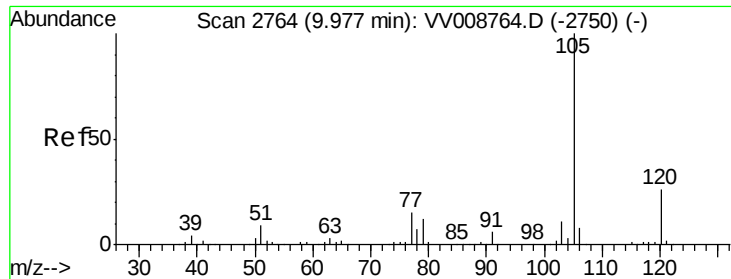
78 45.8 32.2 59.8



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 21.837 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD02067

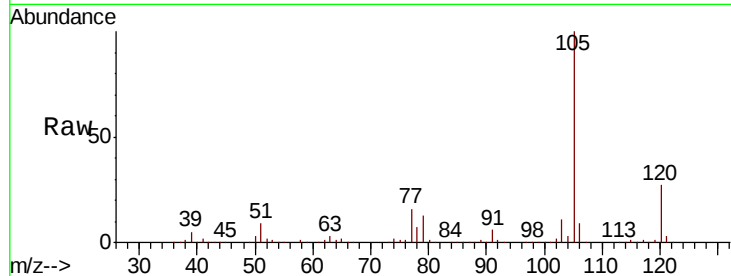
Tgt Ion:105 Resp: 1092512

Ion Ratio Lower Upper

105 100

120 26.8 21.5 32.3

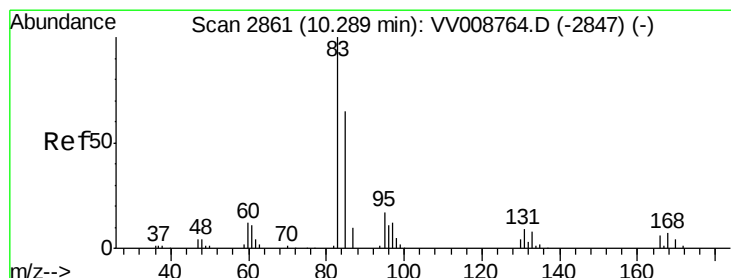
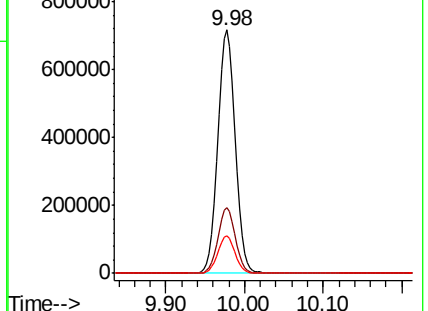
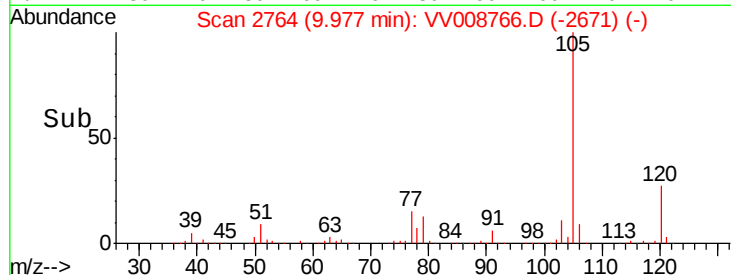
77 15.3 12.2 18.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 21.309 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

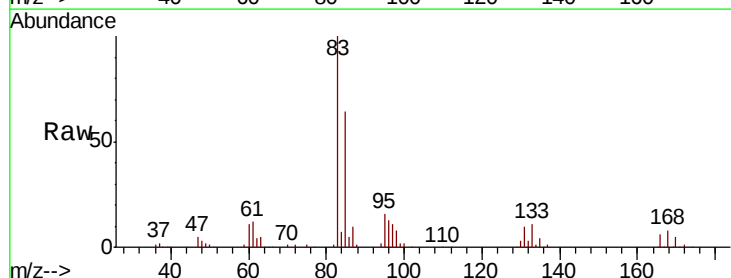
Tgt Ion: 83 Resp: 173648

Ion Ratio Lower Upper

83 100

85 64.1 45.6 84.8

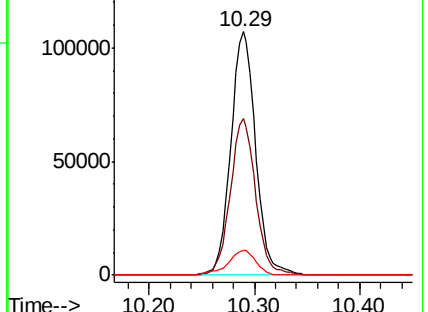
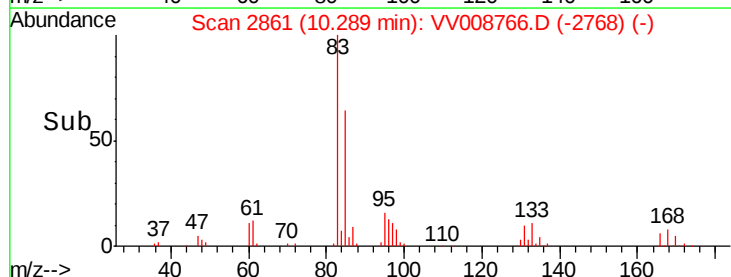
131 10.3 7.3 10.9

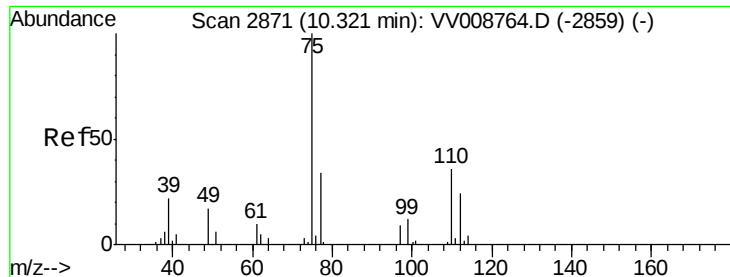


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

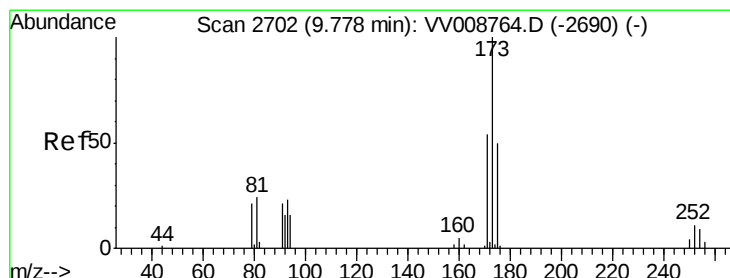
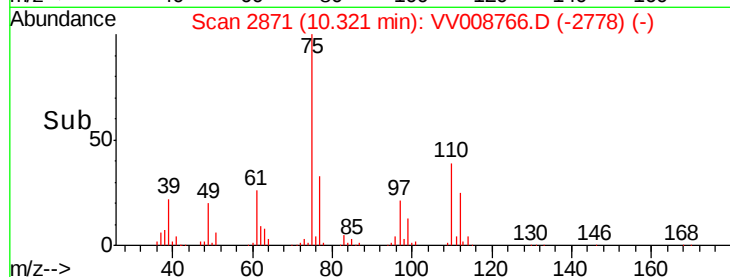
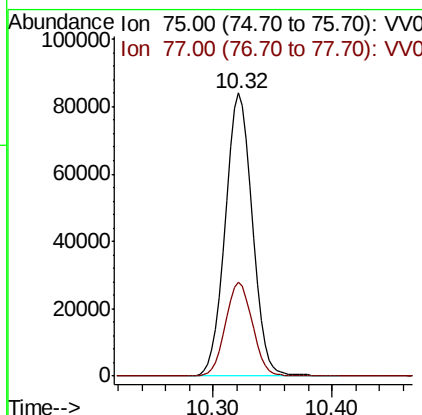
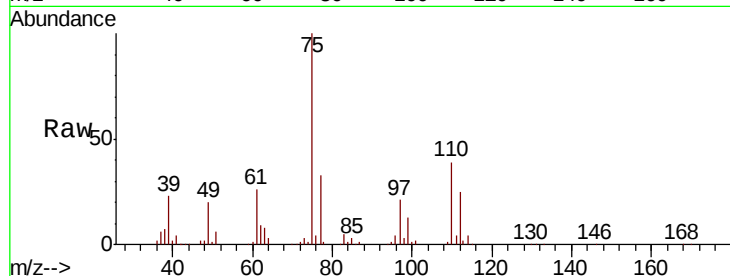




#59
 1,2,3-Trichloropropane
 Concen: 20.545 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VV008766.D
 Acq: 29 Nov 2018 16:09

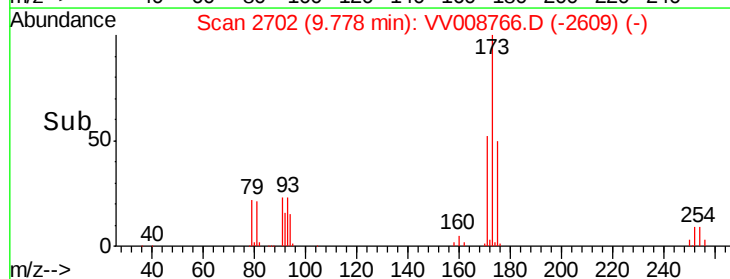
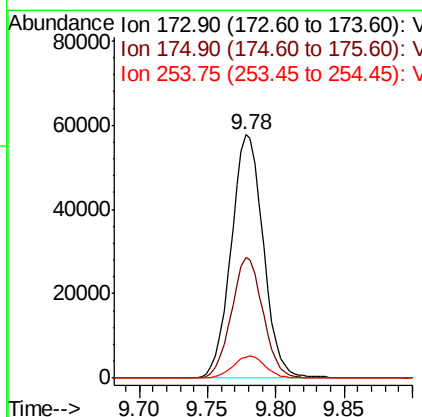
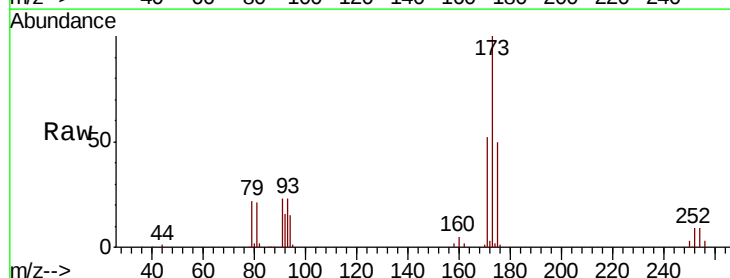
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02067

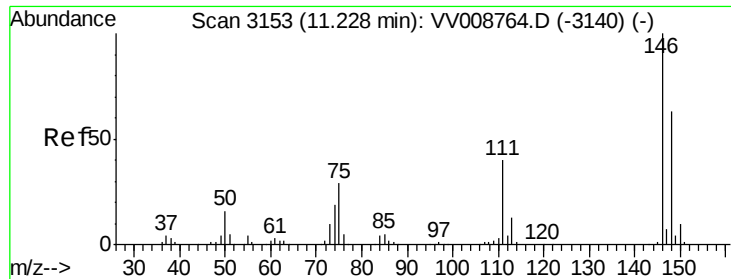
Tgt Ion: 75 Resp: 132867
 Ion Ratio Lower Upper
 75 100
 77 33.2 26.9 40.3



#61
 Bromoform
 Concen: 22.799 ug/L
 RT: 9.78 min Scan# 2702
 Delta R.T. -0.00 min
 Lab File: VV008766.D
 Acq: 29 Nov 2018 16:09

Tgt Ion: 173 Resp: 94321
 Ion Ratio Lower Upper
 173 100
 175 48.9 39.6 59.4
 254 9.0 6.9 10.3





#62

1,3-Dichlorobenzene

Concen: 20.143 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD02067

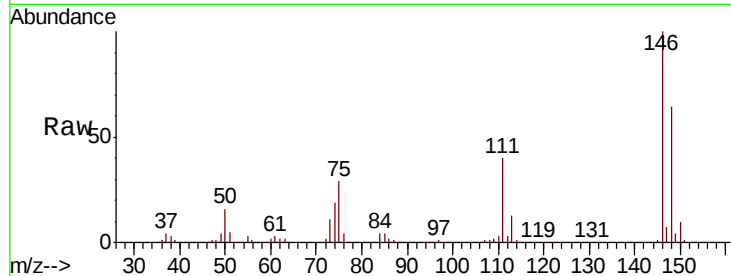
Tgt Ion:146 Resp: 497763

Ion Ratio Lower Upper

146 100

111 40.2 28.1 52.1

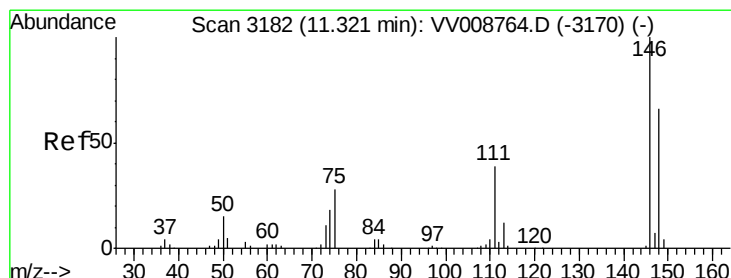
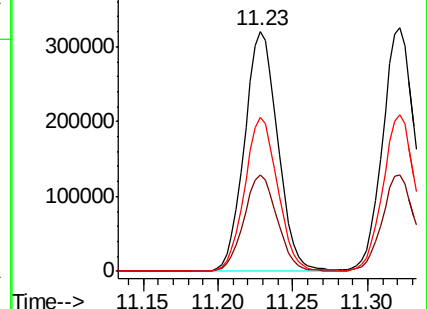
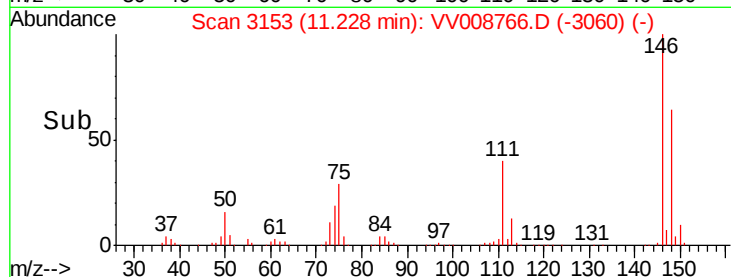
148 64.1 44.4 82.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 18.844 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

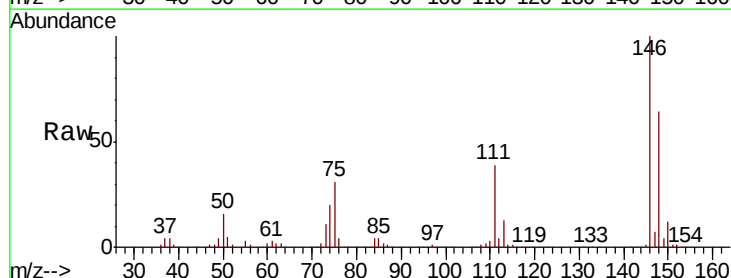
Tgt Ion:146 Resp: 498768

Ion Ratio Lower Upper

146 100

111 39.4 27.6 51.4

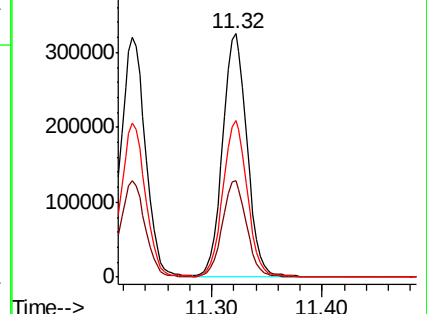
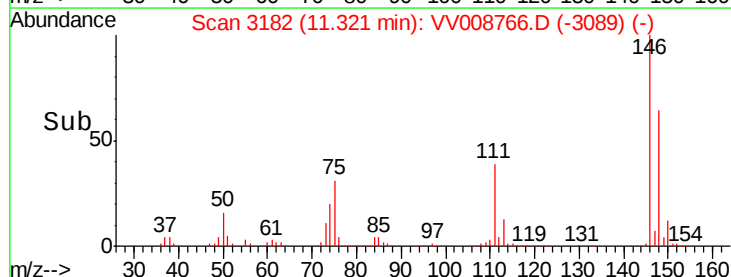
148 64.3 46.5 86.3

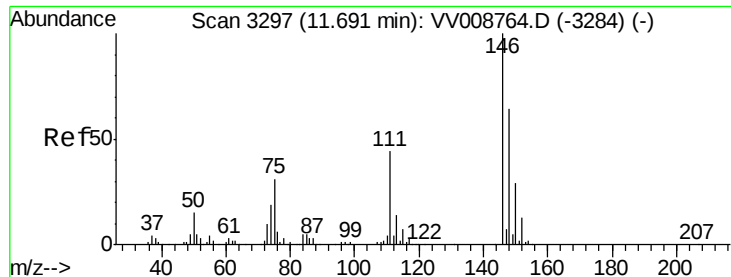


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 18.647 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD02067

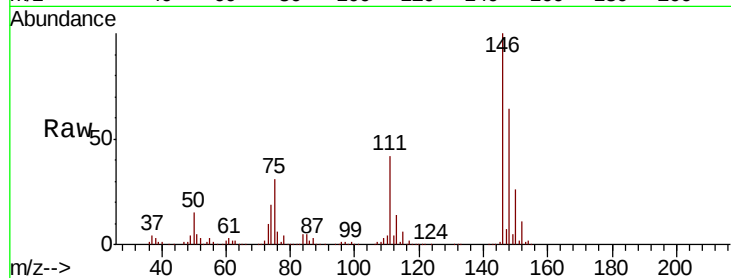
Tgt Ion:146 Resp: 459202

Ion Ratio Lower Upper

146 100

111 42.2 34.8 52.2

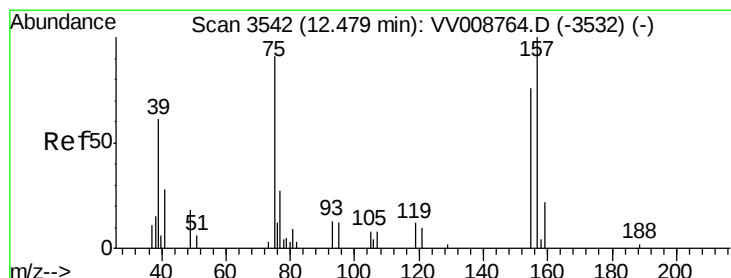
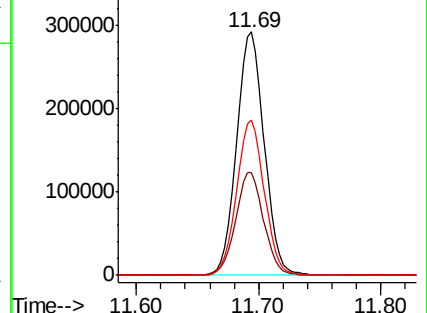
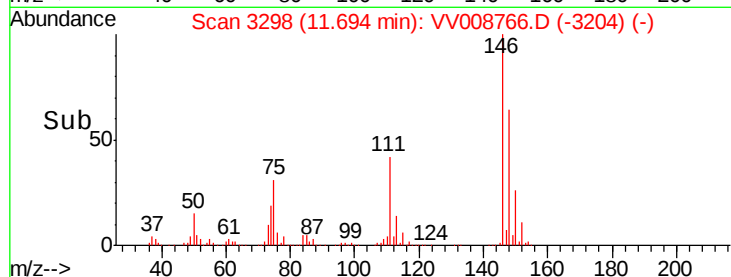
148 63.8 51.1 76.7



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 22.369 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

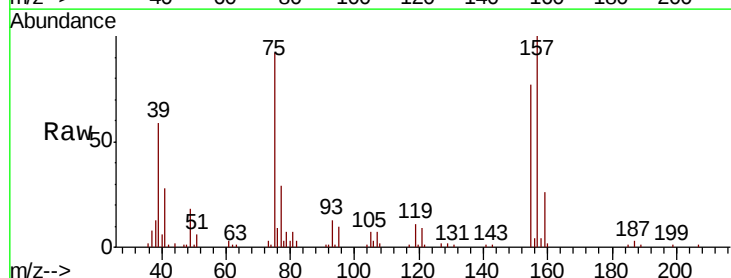
Tgt Ion: 75 Resp: 27130

Ion Ratio Lower Upper

75 100

155 84.3 66.7 100.1

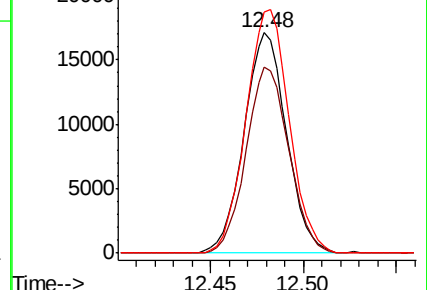
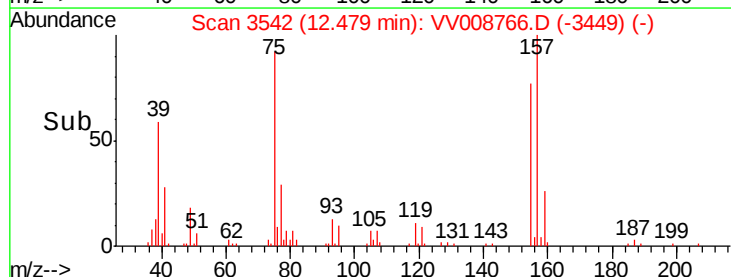
157 109.2 88.0 132.0

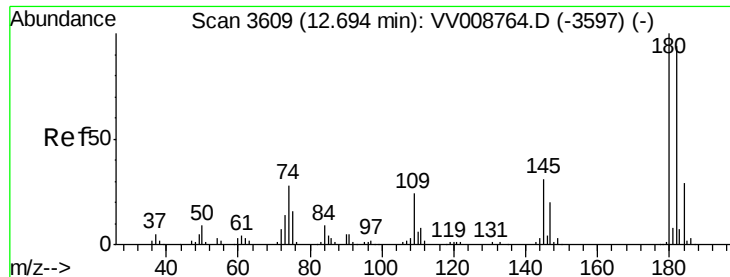


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

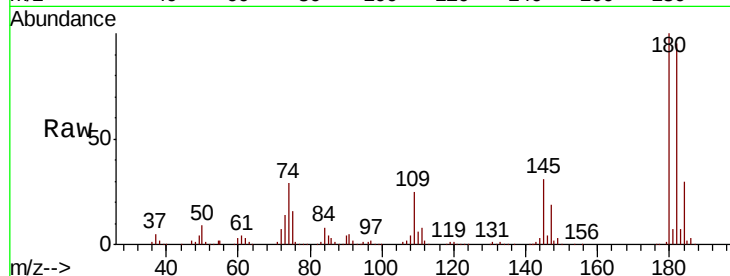




#67
 1,3,5-Trichlorobenzene
 Concen: 21.285 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV008766.D
 Acq: 29 Nov 2018 16:09

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02067

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	74.7	112.1
184	30.0	23.3	34.9
145	30.8	24.2	36.4



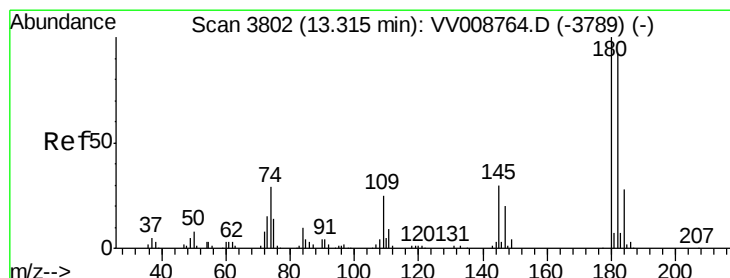
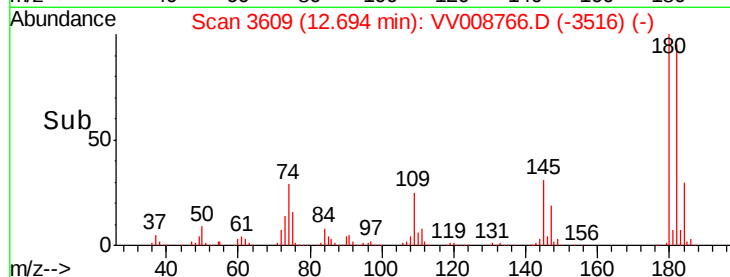
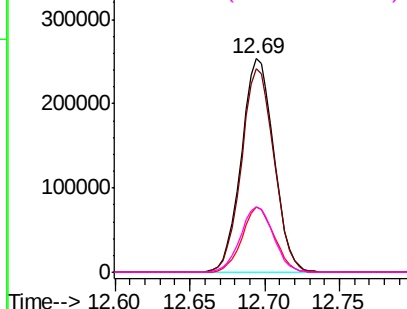
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

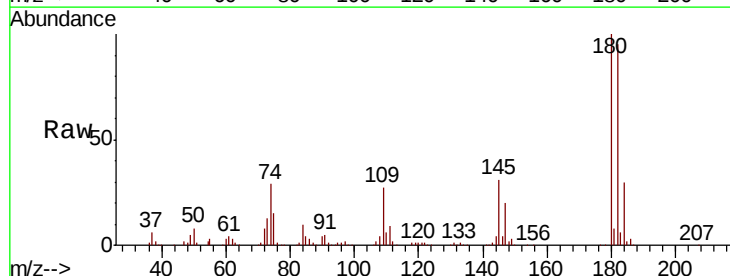
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 23.928 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. -0.00 min
 Lab File: VV008766.D
 Acq: 29 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	74.2	111.4
145	31.3	24.1	36.1

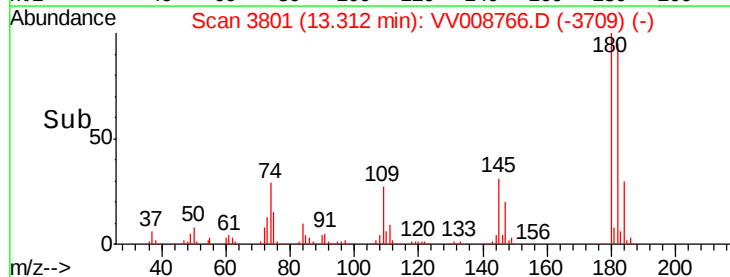
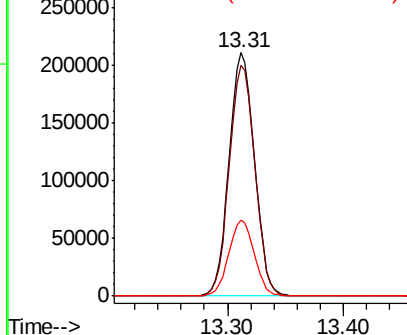


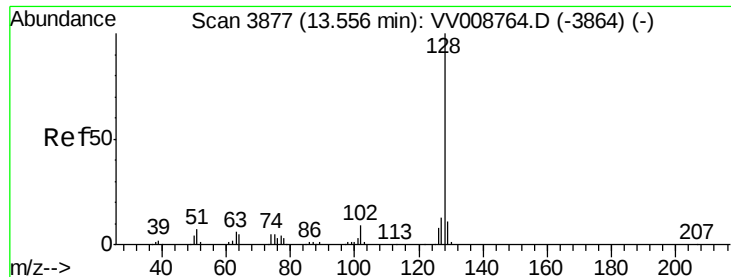
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 26.748 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD02067

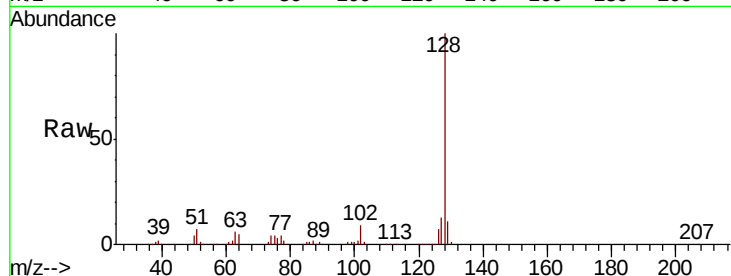
Tgt Ion:128 Resp: 519851

Ion Ratio Lower Upper

128 100

129 10.6 8.6 12.8

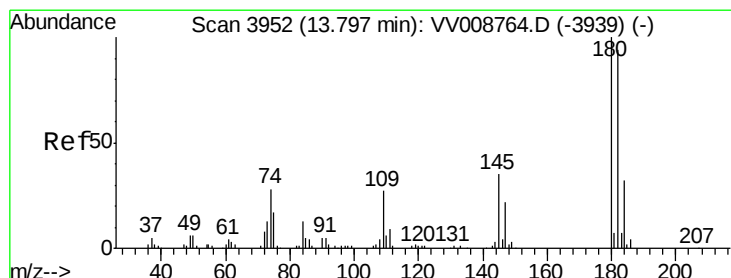
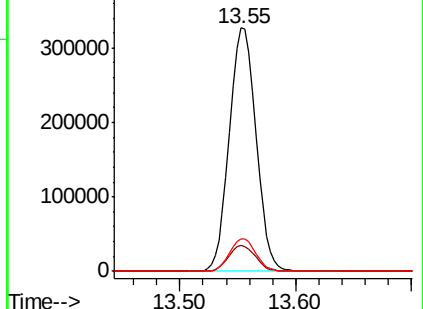
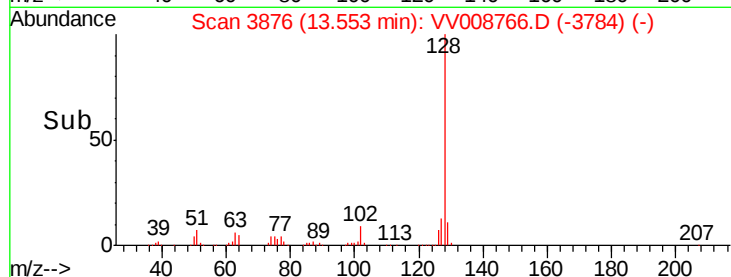
127 13.1 10.1 15.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 23.736 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. -0.00 min

Lab File: VV008766.D

Acq: 29 Nov 2018 16:09

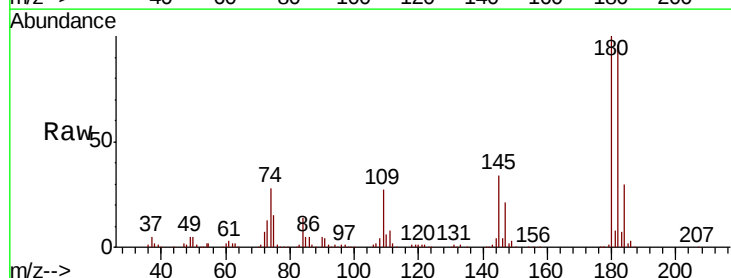
Tgt Ion:180 Resp: 286428

Ion Ratio Lower Upper

180 100

182 95.6 76.2 114.4

145 33.6 27.6 41.4



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

