

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW120718\
 Data File : VW007349.D
 Acq On : 08 Dec 2018 11:12
 Operator : SY/AP
 Sample : VSTDCCC025EC
 Misc : 5.00G/10ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02581

Quant Time: Dec 10 05:56:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120718S.M
 Quant Title : VOC Analysis
 QLast Update : Mon Dec 10 05:52:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	124670	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	107538	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	53255	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	22566	27.79	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	111.16%
7) Chloroethane-d5	2.89	69	16834	24.48	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.92%
10) 1,1-Dichloroethene-d2	4.02	63	72612	25.92	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	103.68%
20) 2-Butanone-d5	7.07	46	19009	37.14	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	74.28%
24) Chloroform-d	7.65	84	70681	24.04	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	96.16%
26) 1,2-Dichloroethane-d4	8.31	65	39777	23.76	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.04%
29) Benzene-d6	8.27	84	137167	23.48	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	93.92%
33) 1,2-Dichloropropane-d6	9.28	67	38003	22.80	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	91.20%
37) Toluene-d8	10.32	98	133067	24.30	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	97.20%
38) trans-1,3-Dichloropropene-	10.58	79	18113	21.26	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	85.04%
39) 2-Hexanone-d5	10.93	63	14092	35.12	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	70.24%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	30987	20.40	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	81.60%
61) 1,2-Dichlorobenzene-d4	13.86	152	43683	23.32	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	93.28%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	39307	28.870	ug/L	86
3) Chloromethane	2.22	50	26260	24.093	ug/L	96
5) Vinyl chloride	2.37	62	30755	29.909	ug/L	94
6) Bromomethane	2.78	94	19105	26.862	ug/L	99
8) Chloroethane	2.93	64	16634	26.873	ug/L	100
9) Trichlorofluoromethane	3.26	101	27750	23.510	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	43562	27.685	ug/L	96
12) 1,1-Dichloroethene	4.04	96	38527	26.314	ug/L	90
13) Acetone	4.12	43	16071	27.001	ug/L	98
14) Carbon disulfide	4.38	76	118208	27.651	ug/L	99
15) Methyl Acetate	4.67	43	18294	20.498	ug/L #	89
16) Methylene chloride	4.91	84	42248	20.973	ug/L	96
17) Methyl tert-butyl Ether	5.42	73	64946	27.280	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	41183	26.219	ug/L	96
19) 1,1-Dichloroethane	6.21	63	69739	26.047	ug/L	98
21) 2-Butanone	7.18	43	23832	37.254	ug/L	100
22) cis-1,2-Dichloroethene	7.17	96	45405	26.269	ug/L	99

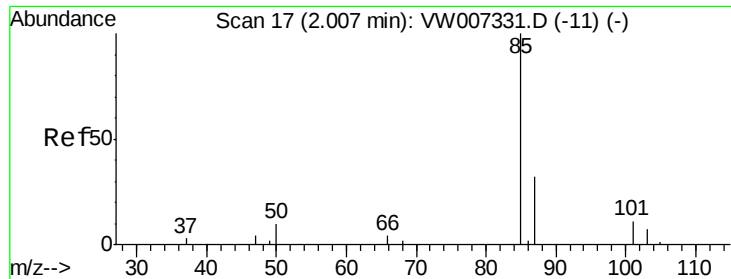
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW120718\
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 Quant Title : VOC Analysis
 QLast Update : Mon Dec 10 05:52:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.52	128	20472	25.981	ug/L	89
25) Chloroform	7.68	83	78586	27.127	ug/L	99
27) 1,2-Dichloroethane	8.40	62	53589	25.877	ug/L	100
30) Cyclohexane	7.96	56	67276	26.078	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	71068	28.079	ug/L	99
32) Carbon tetrachloride	8.07	117	67836	27.735	ug/L	99
34) Benzene	8.32	78	162834	26.417	ug/L	100
35) Trichloroethene	9.09	95	45719	25.866	ug/L	98
36) Methylcyclohexane	9.34	83	79634	26.099	ug/L	100
40) 1,2-Dichloropropane	9.37	63	39244	26.028	ug/L	100
41) Bromodichloromethane	9.64	83	56002	25.867	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	62653	24.743	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	50591	42.391	ug/L	99
44) Toluene	10.39	91	177227	26.675	ug/L	95
45) trans-1,3-Dichloropropene	10.61	75	52544	23.629	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	31515	25.384	ug/L	91
47) Tetrachloroethene	10.87	164	34535	25.866	ug/L	93
49) 2-Hexanone	10.97	43	33544	39.992	ug/L	93
50) Dibromochloromethane	11.13	129	41007	26.886	ug/L	98
51) 1,2-Dibromoethane	11.24	107	30573	24.519	ug/L	98
52) Chlorobenzene	11.66	112	108733	25.217	ug/L #	87
53) Ethylbenzene	11.73	91	191805	25.674	ug/L	89
54) m,p-Xylene	11.84	106	74947	26.409	ug/L	99
55) o-xylene	12.17	106	71297	26.584	ug/L	88
56) Styrene	12.19	104	122609	26.670	ug/L	98
57) Isopropylbenzene	12.47	105	199694	26.679	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.72	83	37075	24.089	ug/L	87
59) 1,2,3-Trichloropropane	12.77	75	28475	23.373	ug/L	98
62) Bromoform	12.35	173	22630	24.813	ug/L	98
63) 1,3-Dichlorobenzene	13.51	146	86107	25.168	ug/L	93
64) 1,4-Dichlorobenzene	13.58	146	85810	25.159	ug/L	89
65) 1,2-Dichlorobenzene	13.88	146	78855	25.754	ug/L	96
66) 1,2-Dibromo-3-chloropropan	14.49	75	7180	22.140	ug/L	86
67) 1,3,5-Trichlorobenzene	14.63	180	63119	25.468	ug/L	98
68) 1,2,4-trichlorobenzene	15.14	180	54713	25.607	ug/L	94
69) Naphthalene	15.38	128	121095	22.928	ug/L	100
70) 1,2,3-Trichlorobenzene	15.56	180	49369	25.415	ug/L	95

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



#2

Dichlorodifluoromethane

Concen: 28.870 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

Instrument :

MSVOA_W

ClientSampled :

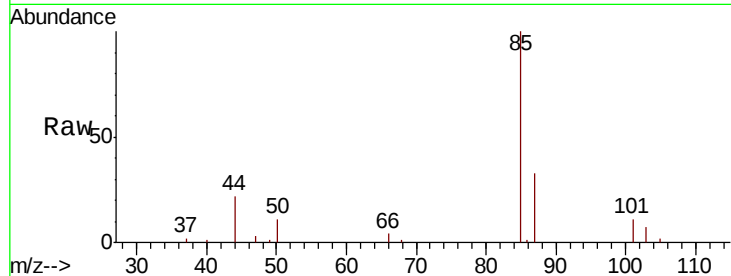
VSTD02581

Tgt Ion: 85 Resp: 39307

Ion Ratio Lower Upper

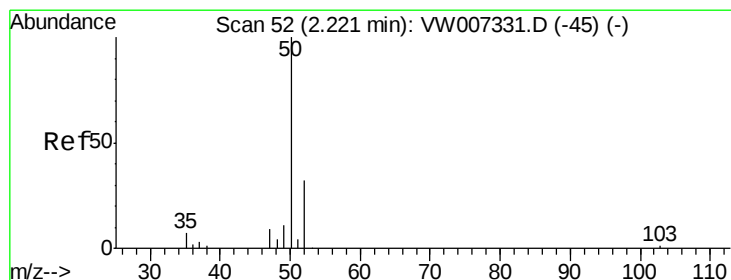
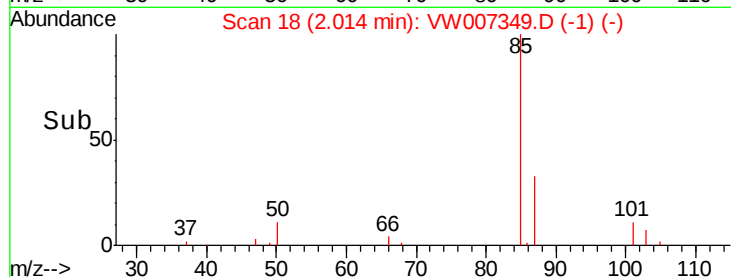
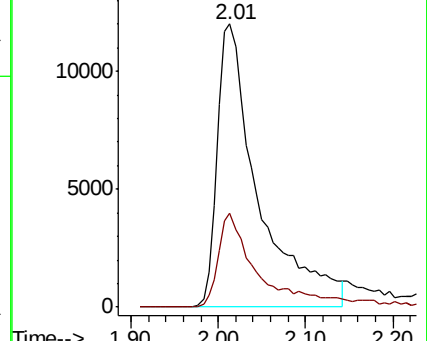
85 100

87 25.3 23.2 43.0



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 24.093 ug/L

RT: 2.22 min Scan# 52

Delta R.T. 0.00 min

Lab File: VW007349.D

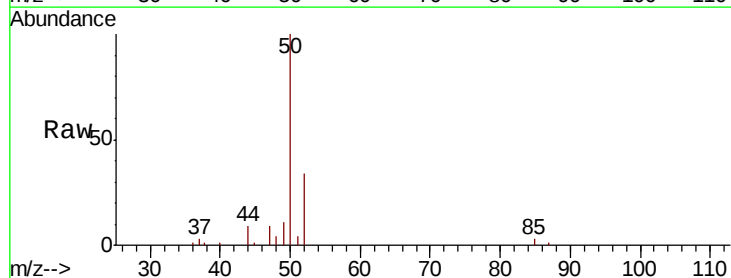
Acq: 08 Dec 2018 11:12

Tgt Ion: 50 Resp: 26260

Ion Ratio Lower Upper

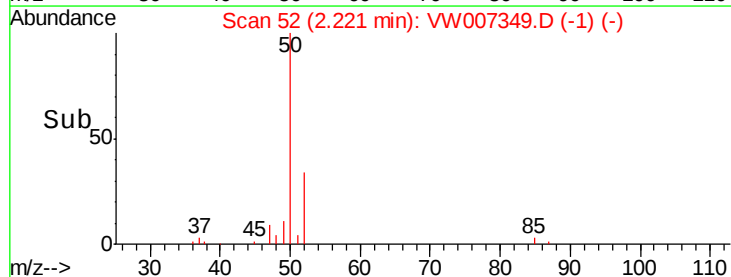
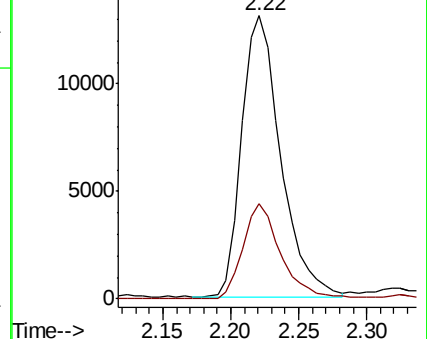
50 100

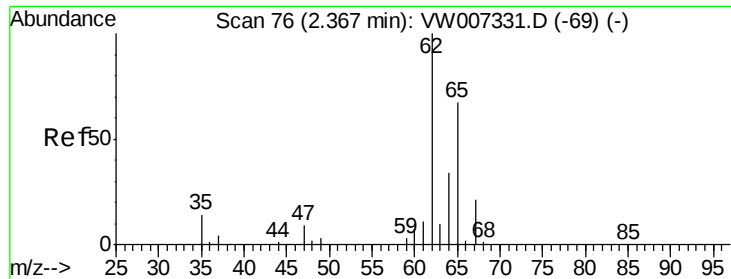
52 33.7 22.2 41.2



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 29.909 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

Instrument :

MSVOA_W

ClientSampleId :

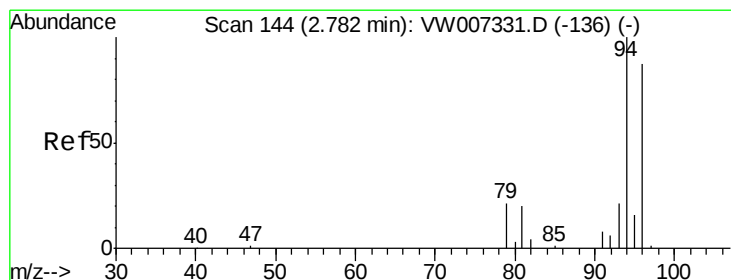
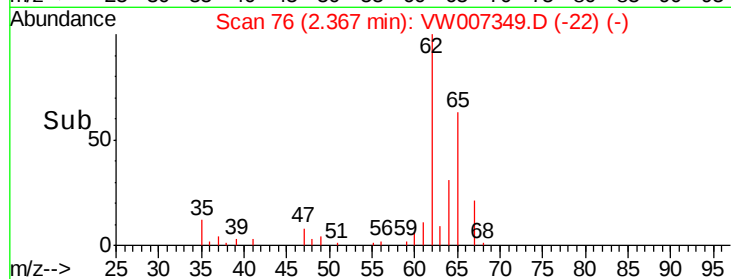
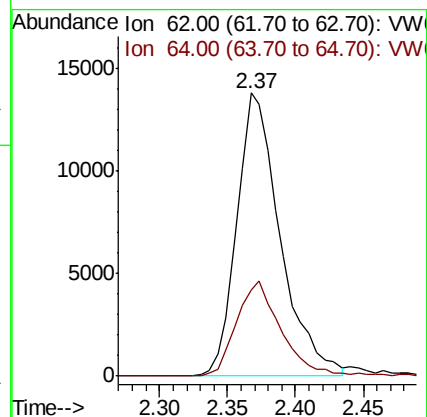
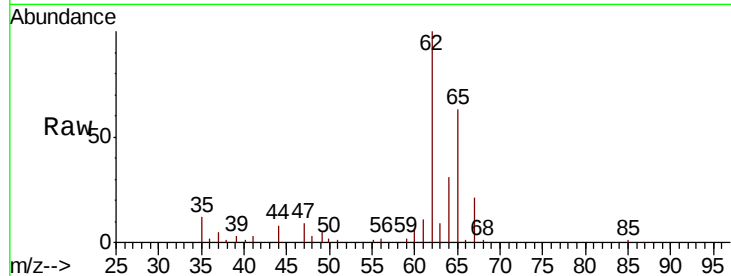
VSTD02581

Tgt Ion: 62 Resp: 30755

Ion Ratio Lower Upper

62 100

64 30.7 23.9 44.3



#6

Bromomethane

Concen: 26.862 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW007349.D

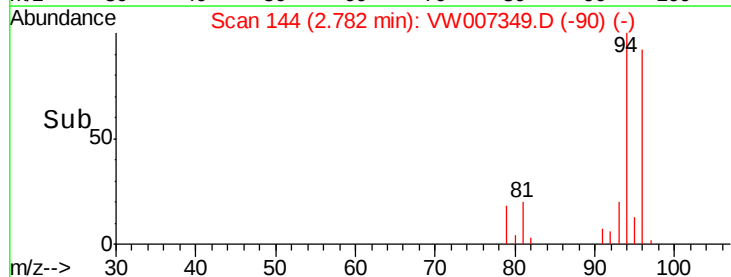
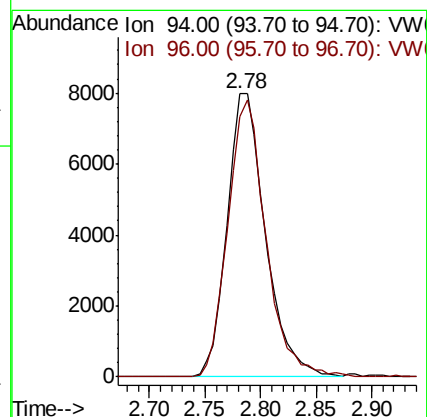
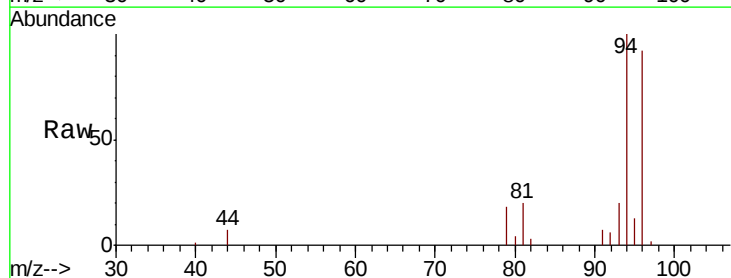
Acq: 08 Dec 2018 11:12

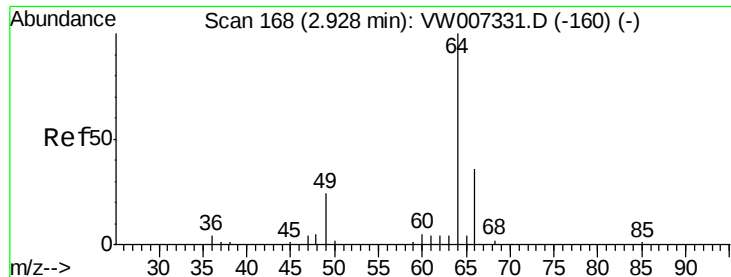
Tgt Ion: 94 Resp: 19105

Ion Ratio Lower Upper

94 100

96 96.6 9.6 181.8





#8

Chloroethane

Concen: 26.873 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

Instrument :

MSVOA_W

ClientSampleId :

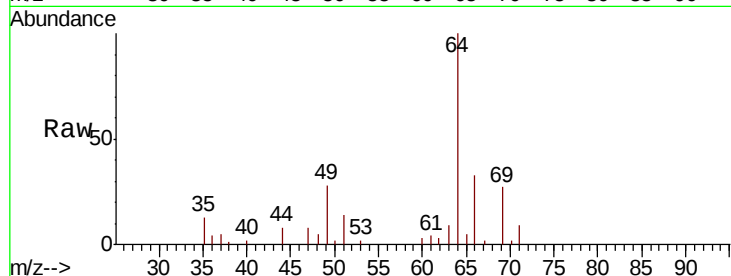
VSTD02581

Tgt Ion: 64 Resp: 16634

Ion Ratio Lower Upper

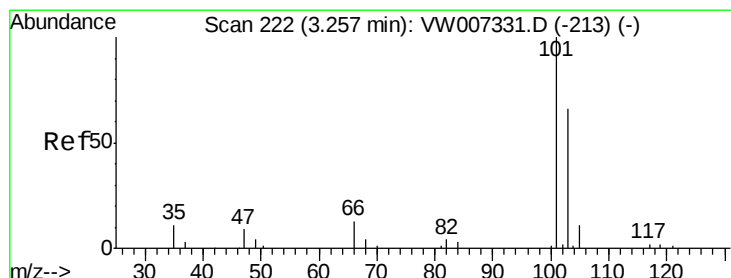
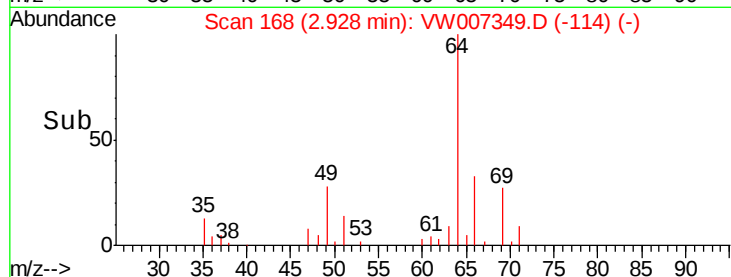
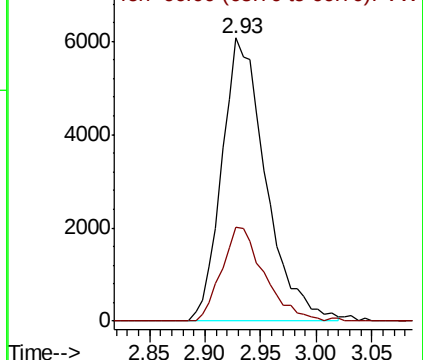
64 100

66 33.2 23.2 43.2



Abundance Ion 64.00 (63.70 to 64.70): VW

Ion 66.00 (65.70 to 66.70): VW



#9

Trichlorofluoromethane

Concen: 23.510 ug/L

RT: 3.26 min Scan# 223

Delta R.T. 0.01 min

Lab File: VW007349.D

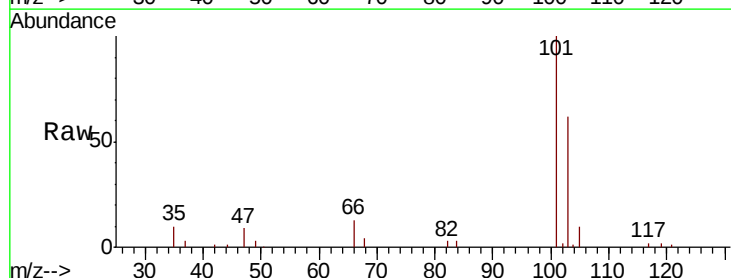
Acq: 08 Dec 2018 11:12

Tgt Ion: 101 Resp: 27750

Ion Ratio Lower Upper

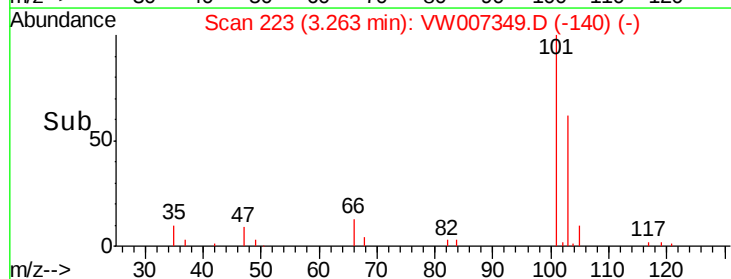
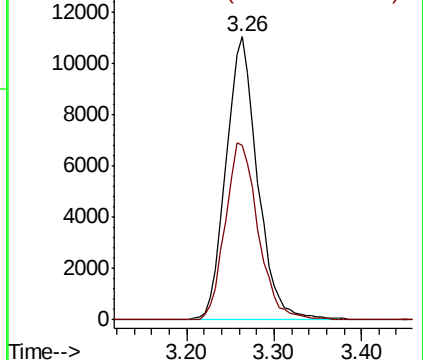
101 100

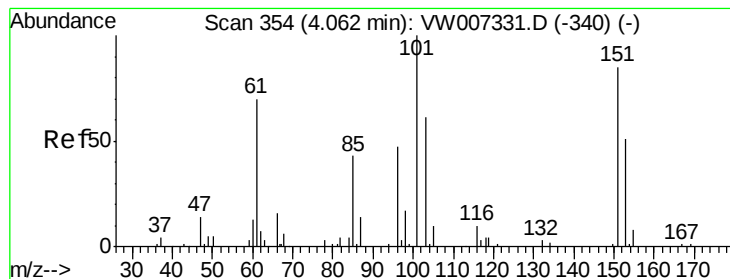
103 64.9 44.7 82.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#11

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

Concen: 27.685 ug/L

RT: 4.07 min Scan# 355

Delta R.T. 0.01 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

Instrument :

MSVOA_W

ClientSampleId :

VSTD02581

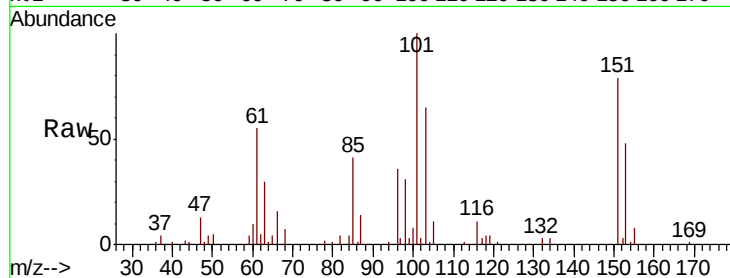
Tgt Ion: 101 Resp: 43562

Ion Ratio Lower Upper

101 100

85 39.5 35.4 53.2

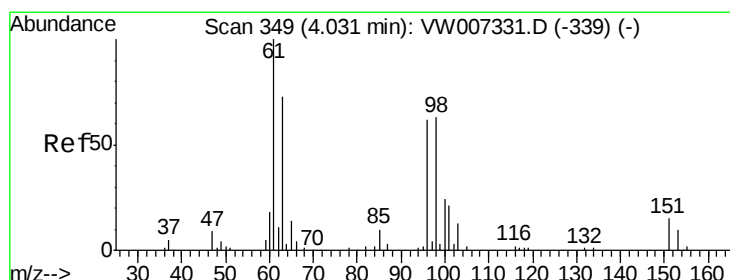
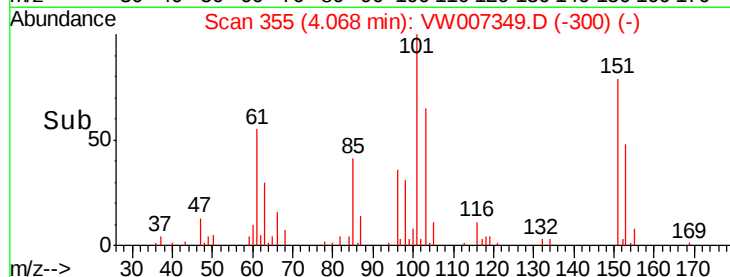
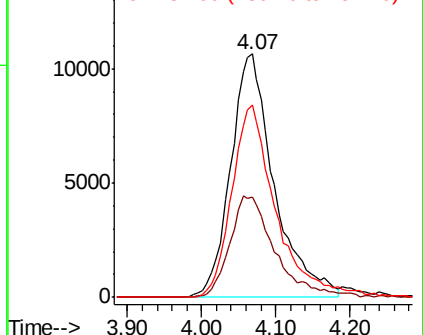
151 78.9 64.8 97.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 26.314 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.01 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

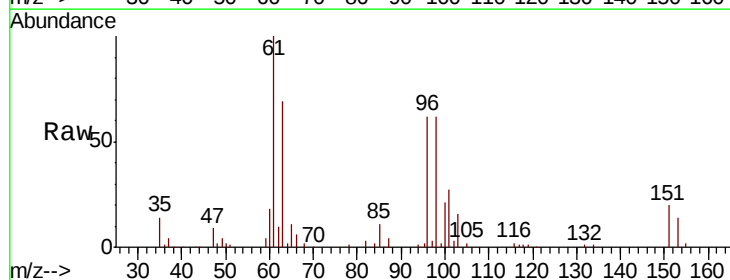
Tgt Ion: 96 Resp: 38527

Ion Ratio Lower Upper

96 100

61 160.0 117.2 217.8

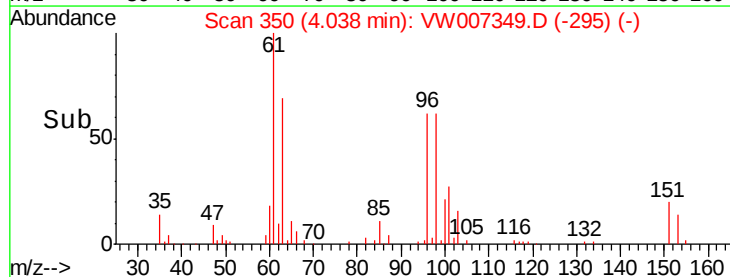
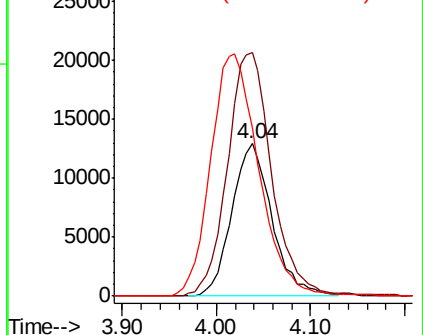
63 110.5 89.7 166.7

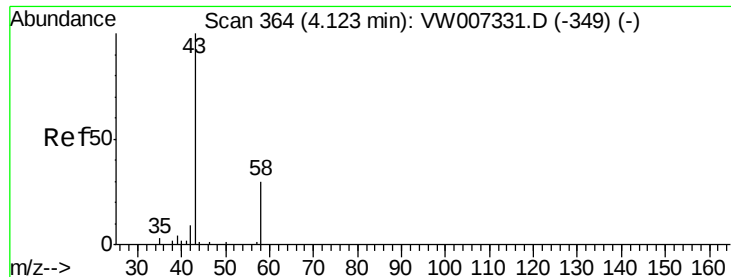


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 27.001 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

Instrument :

MSVOA_W

ClientSampleId :

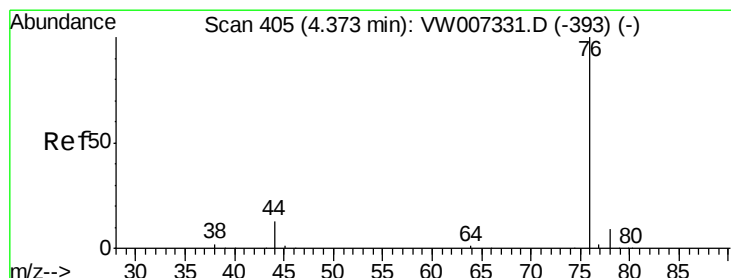
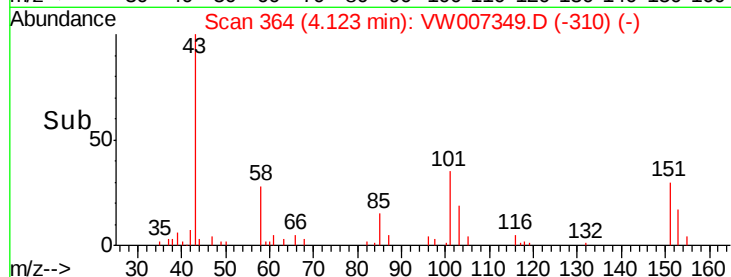
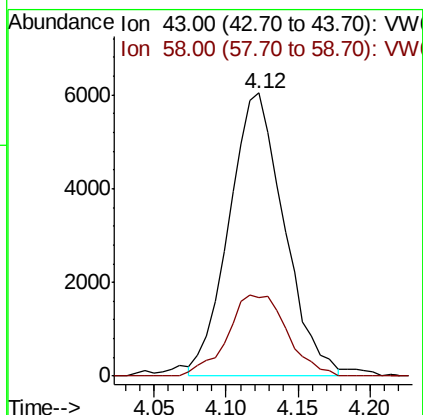
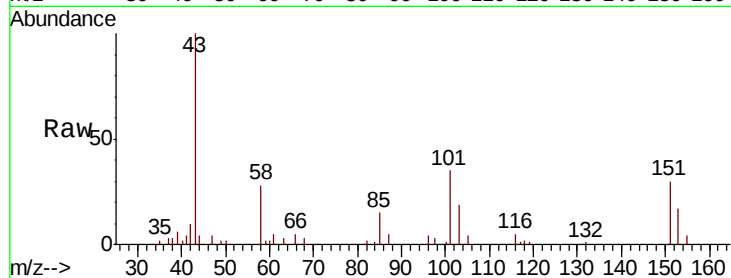
VSTD02581

Tgt Ion: 43 Resp: 16071

Ion Ratio Lower Upper

43 100

58 30.7 0.0 59.2



#14

Carbon disulfide

Concen: 27.651 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.01 min

Lab File: VW007349.D

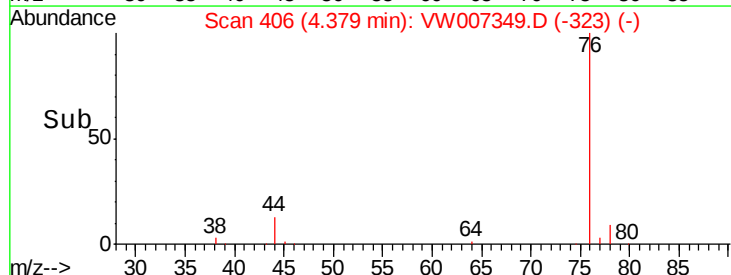
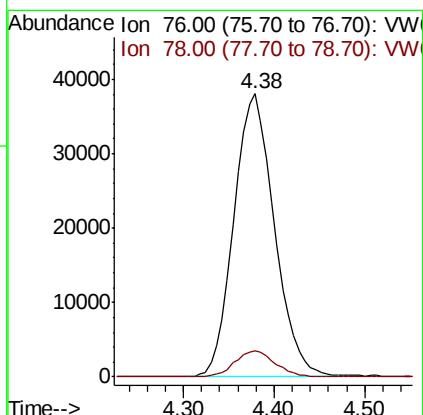
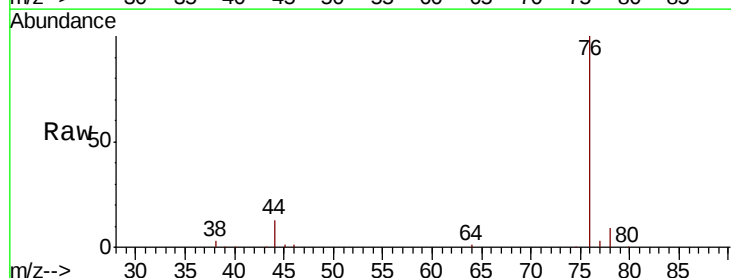
Acq: 08 Dec 2018 11:12

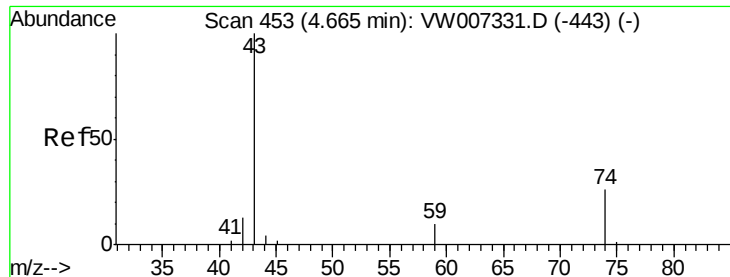
Tgt Ion: 76 Resp: 118208

Ion Ratio Lower Upper

76 100

78 9.4 7.3 10.9





#15

Methyl Acetate

Concen: 20.498 ug/L

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

Instrument :

MSVOA_W

ClientSampleId :

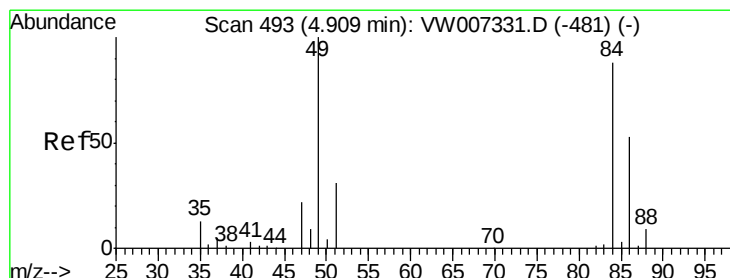
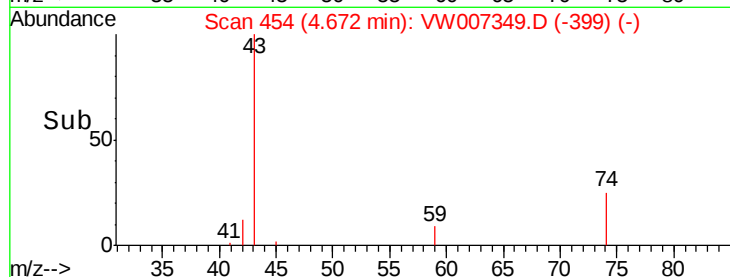
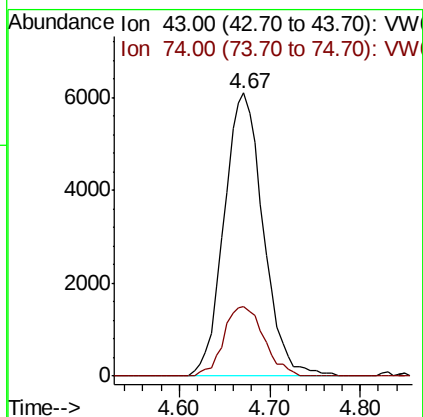
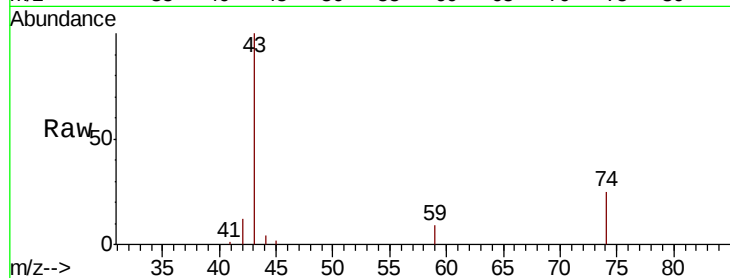
VSTD02581

Tgt Ion: 43 Resp: 18294

Ion Ratio Lower Upper

43 100

74 25.1 0.1 0.1#



#16

Methylene chloride

Concen: 20.973 ug/L

RT: 4.91 min Scan# 493

Delta R.T. 0.00 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

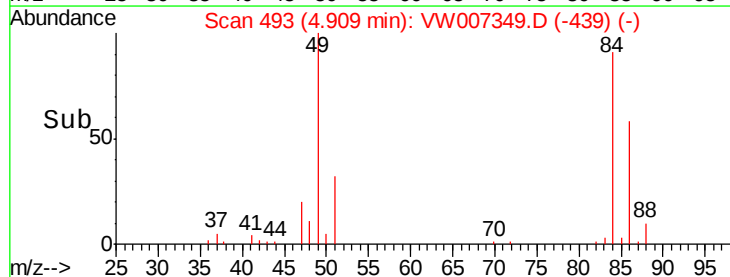
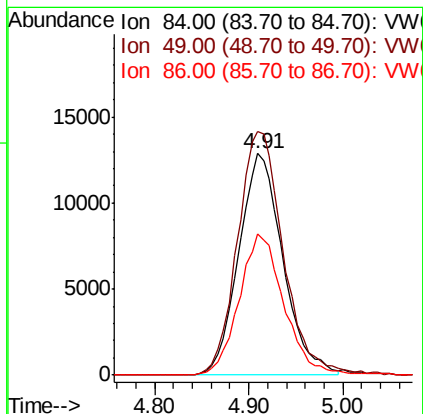
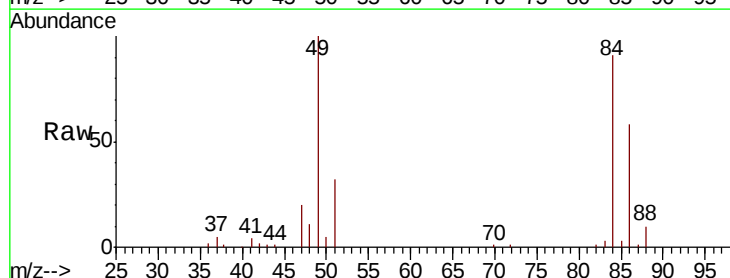
Tgt Ion: 84 Resp: 42248

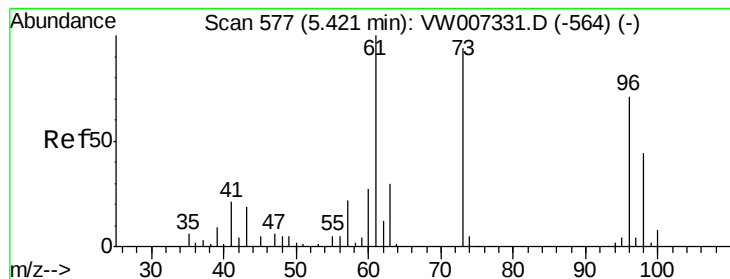
Ion Ratio Lower Upper

84 100

49 109.9 80.8 150.2

86 63.9 45.8 85.2





#17

Methyl tert-butyl Ether

Concen: 27.280 ug/L

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

Instrument :

MSVOA_W

ClientSampleId :

VSTD02581

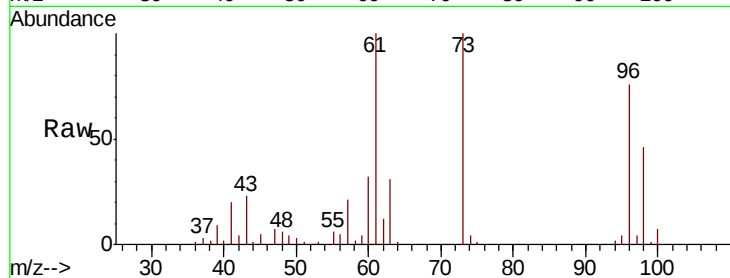
Tgt Ion: 73 Resp: 64946

Ion Ratio Lower Upper

73 100

43 21.8 17.3 25.9

57 20.9 17.0 25.6

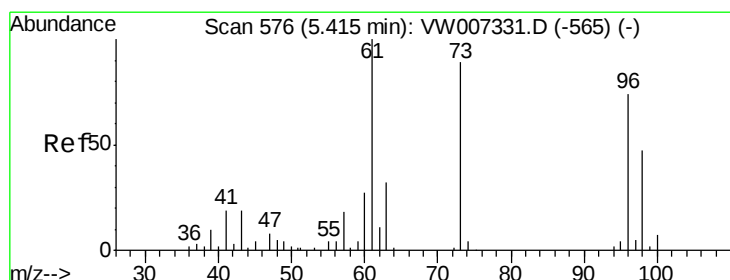
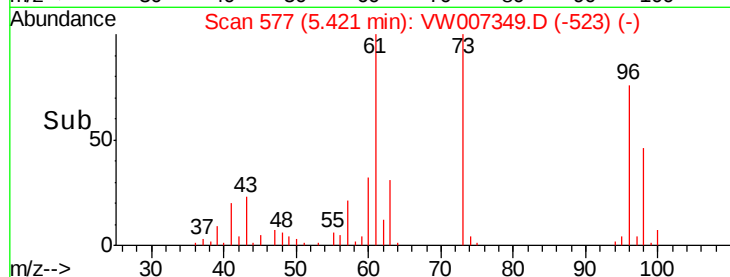
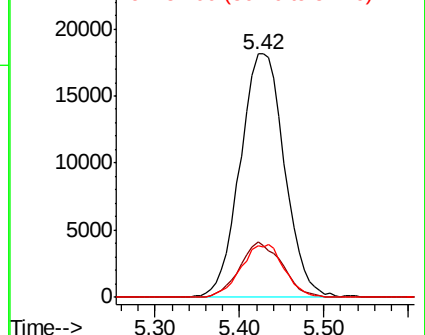


Abundance

Ion 73.00 (72.70 to 73.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 57.00 (56.70 to 57.70): VW



#18

trans-1,2-Dichloroethene

Concen: 26.219 ug/L

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

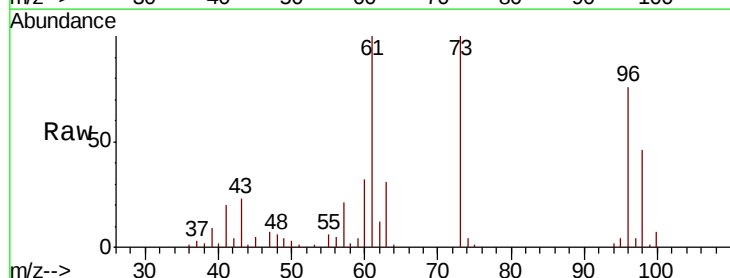
Tgt Ion: 96 Resp: 41183

Ion Ratio Lower Upper

96 100

61 130.7 94.6 175.8

98 60.4 45.1 83.7

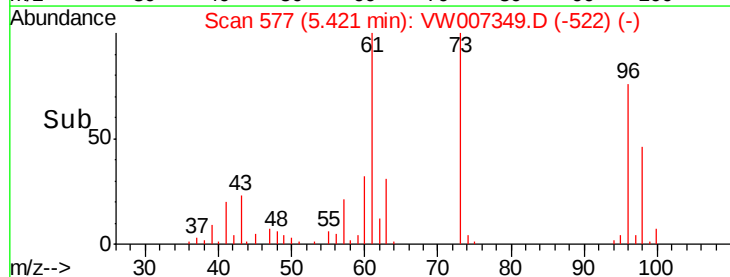
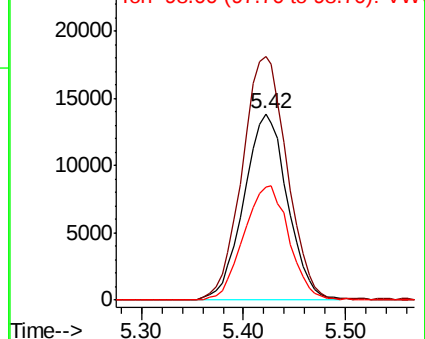


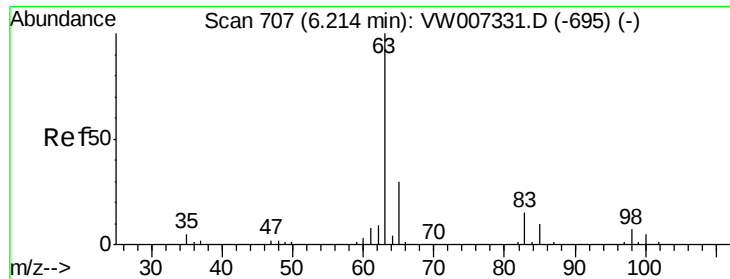
Abundance

Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW

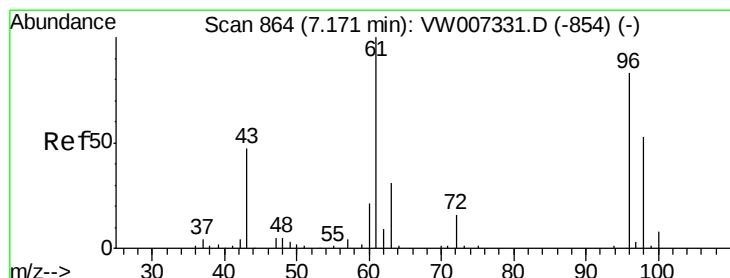
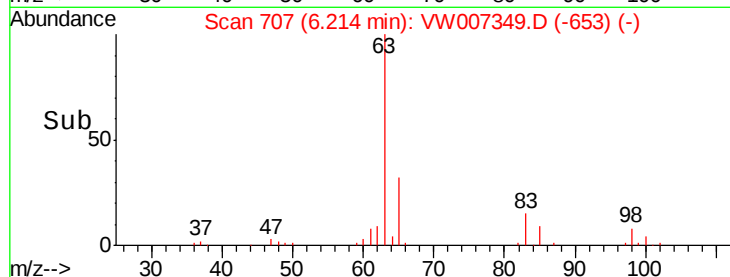
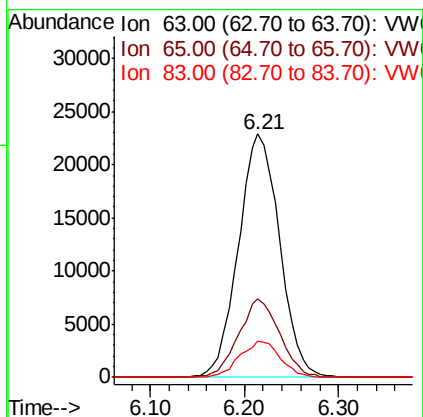
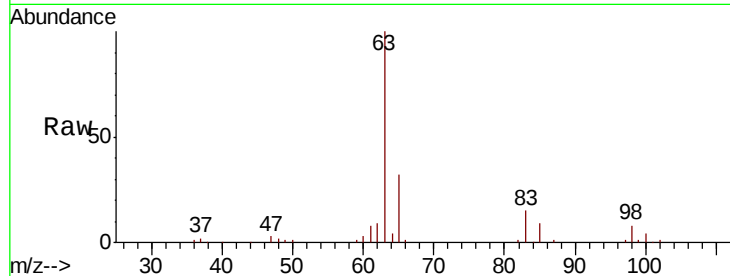




#19
 1,1-Dichloroethane
 Concen: 26.047 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VW007349.D
 Acq: 08 Dec 2018 11:12

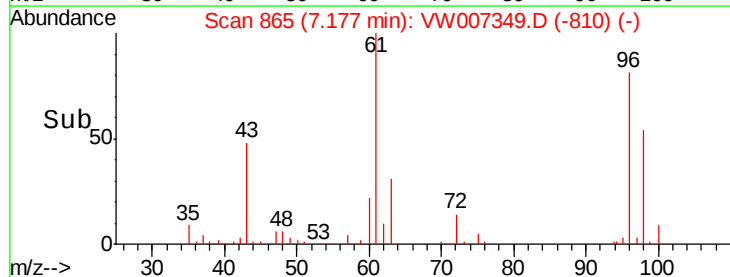
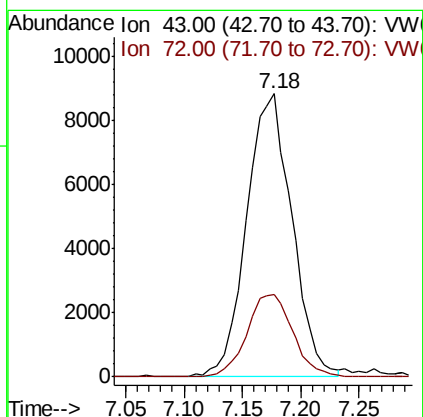
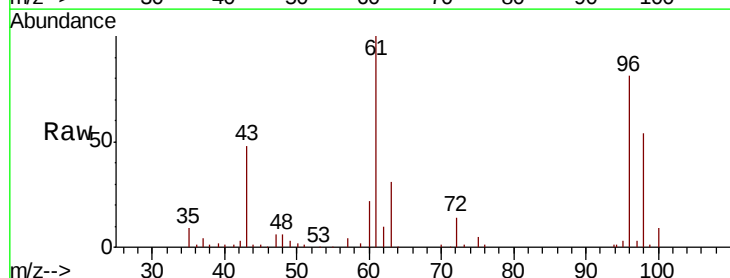
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02581

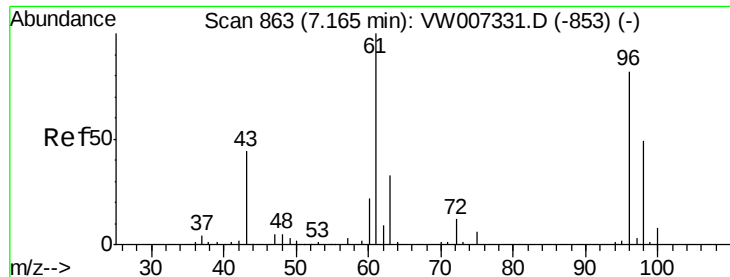
Tgt Ion: 63 Resp: 69739
 Ion Ratio Lower Upper
 63 100
 65 32.5 22.1 41.1
 83 14.8 9.8 18.2



#21
 2-Butanone
 Concen: 37.254 ug/L
 RT: 7.18 min Scan# 865
 Delta R.T. 0.01 min
 Lab File: VW007349.D
 Acq: 08 Dec 2018 11:12

Tgt Ion: 43 Resp: 23832
 Ion Ratio Lower Upper
 43 100
 72 29.6 14.7 44.1



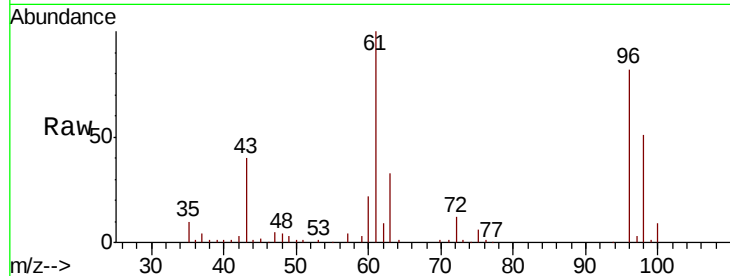


#22

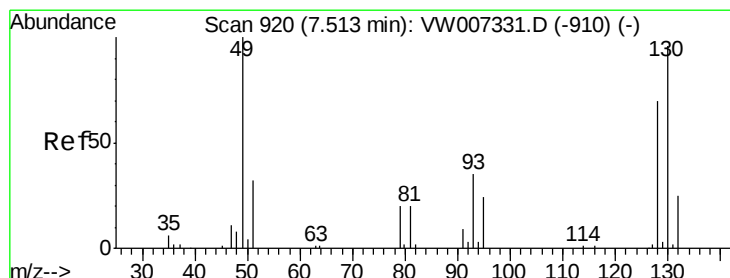
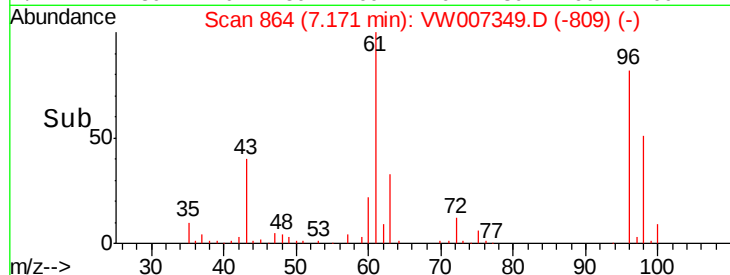
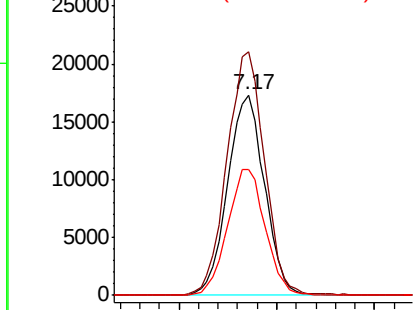
cis-1,2-Dichloroethene
 Concen: 26.269 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VW007349.D
 Acq: 08 Dec 2018 11:12

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02581

Tgt Ion: 96 Resp: 45405
 Ion Ratio Lower Upper
 96 100
 61 121.5 84.6 157.2
 98 62.5 42.9 79.7



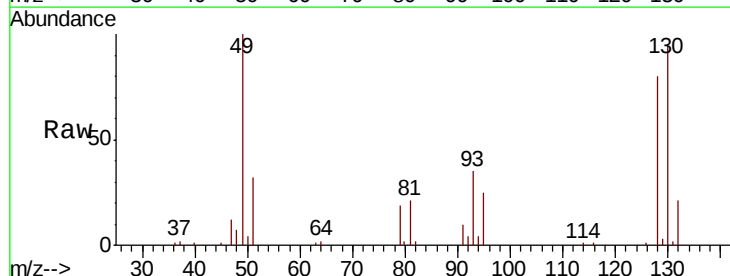
Abundance Ion 96.00 (95.70 to 96.70): VW
 Ion 61.00 (60.70 to 61.70): VW
 Ion 98.00 (97.70 to 98.70): VW



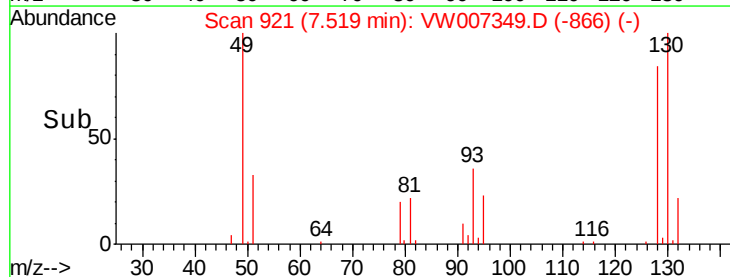
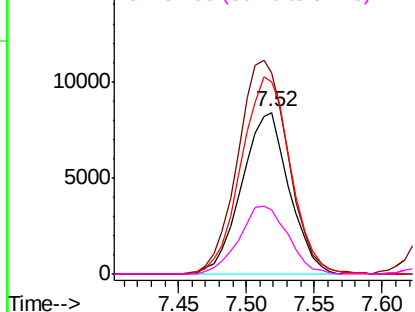
#23

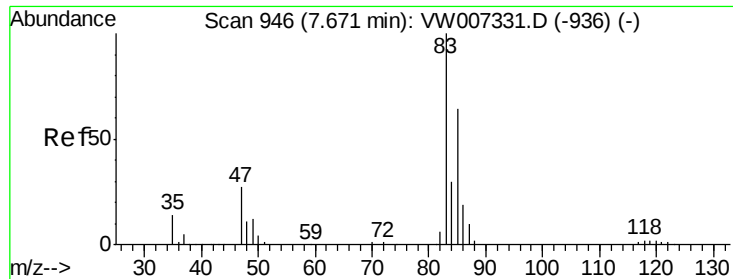
Bromochloromethane
 Concen: 25.981 ug/L
 RT: 7.52 min Scan# 921
 Delta R.T. 0.01 min
 Lab File: VW007349.D
 Acq: 08 Dec 2018 11:12

Tgt Ion: 128 Resp: 20472
 Ion Ratio Lower Upper
 128 100
 49 124.3 102.3 190.1
 130 118.7 88.0 163.4
 51 40.1 34.2 51.4



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VW
 Ion 130.00 (129.70 to 130.70): V
 Ion 51.00 (50.70 to 51.70): VW

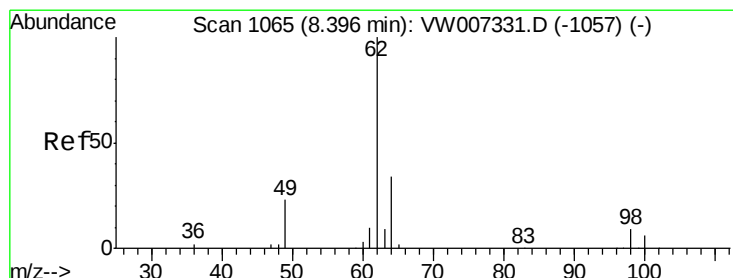
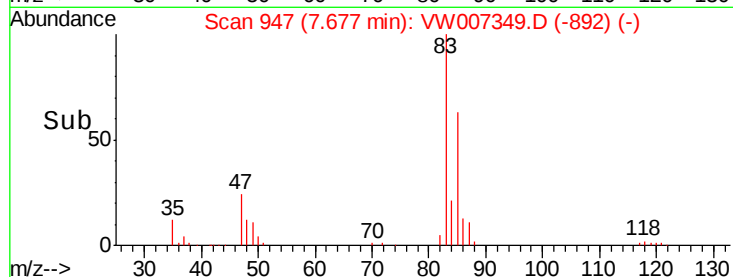
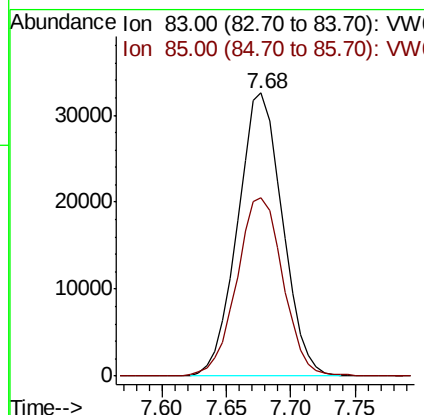
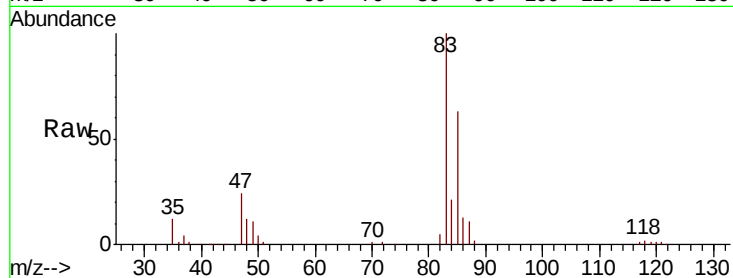




#25
Chloroform
Concen: 27.127 ug/L
RT: 7.68 min Scan# 947
Delta R.T. 0.01 min
Lab File: VW007349.D
Acq: 08 Dec 2018 11:12

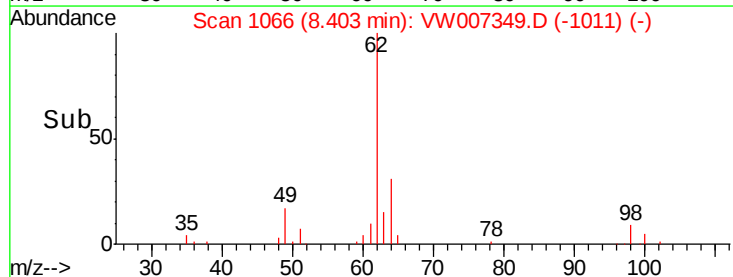
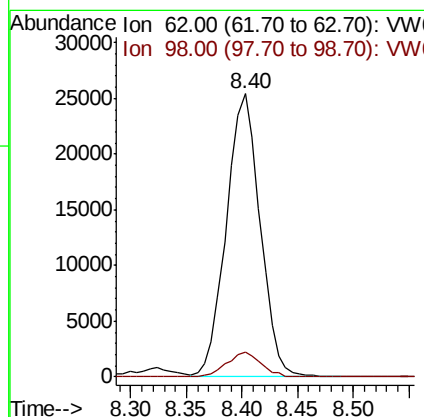
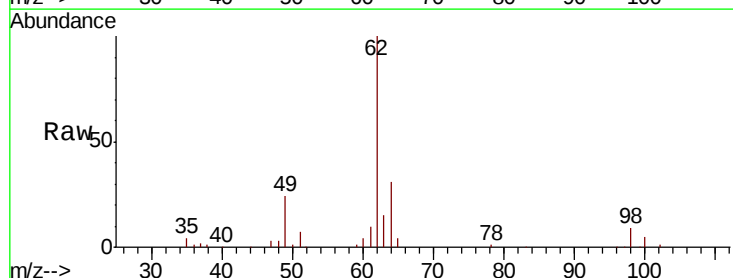
Instrument :
MSVOA_W
ClientSampleId :
VSTD02581

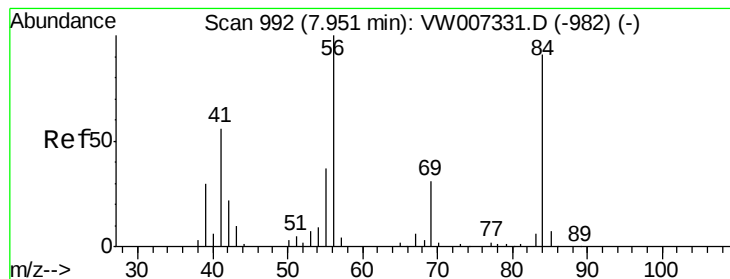
Tgt Ion: 83 Resp: 78586
Ion Ratio Lower Upper
83 100
85 64.9 46.0 85.4



#27
1,2-Dichloroethane
Concen: 25.877 ug/L
RT: 8.40 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VW007349.D
Acq: 08 Dec 2018 11:12

Tgt Ion: 62 Resp: 53589
Ion Ratio Lower Upper
62 100
98 8.6 6.9 10.3





#30

Cyclohexane

Concen: 26.078 ug/L

RT: 7.96 min Scan# 993

Delta R.T. 0.01 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

Instrument :

MSVOA_W

ClientSampleId :

VSTD02581

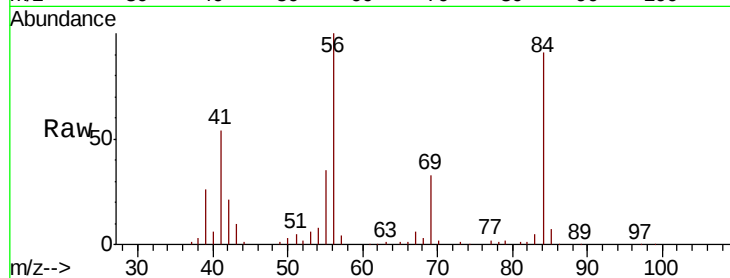
Tgt Ion: 56 Resp: 67276

Ion Ratio Lower Upper

56 100

69 32.9 26.0 39.0

84 92.9 73.6 110.4

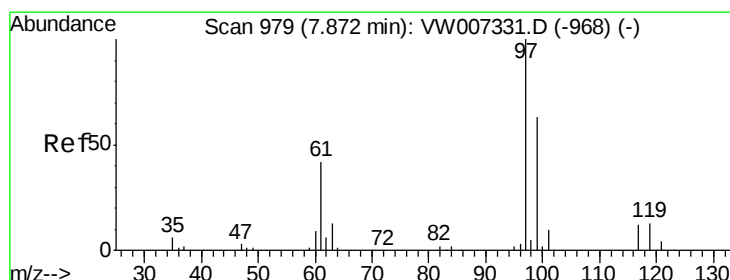
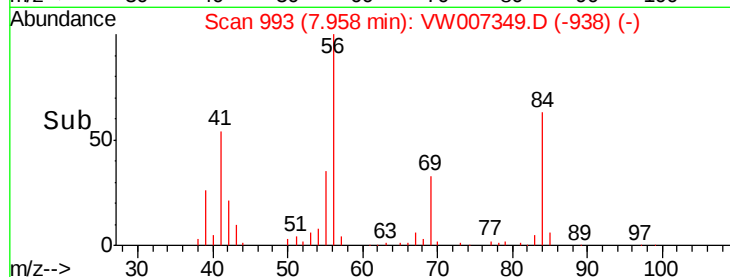
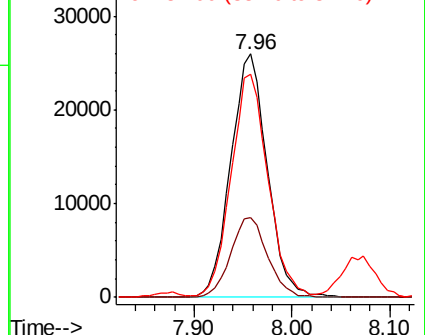


Abundance

Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW



#31

1,1,1-Trichloroethane

Concen: 28.079 ug/L

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

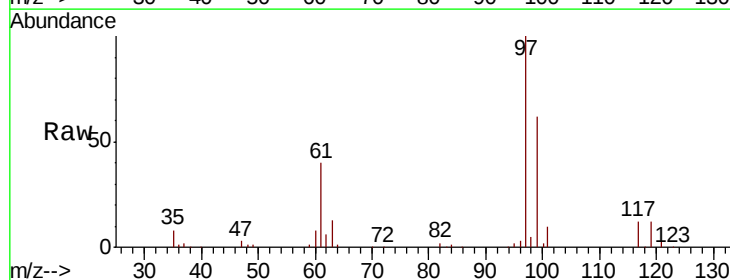
Tgt Ion: 97 Resp: 71068

Ion Ratio Lower Upper

97 100

99 63.3 51.3 76.9

61 41.3 33.2 49.8

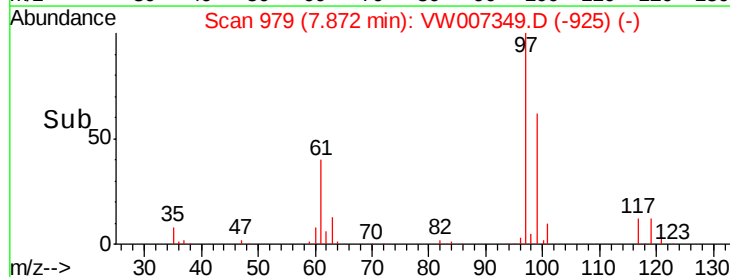
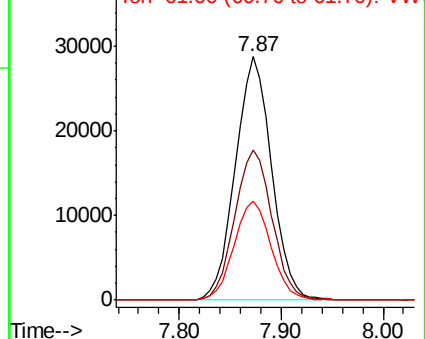


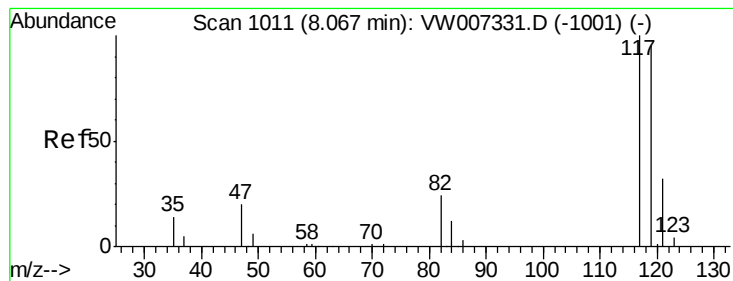
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 99.00 (98.70 to 99.70): VW

Ion 61.00 (60.70 to 61.70): VW





#32

Carbon tetrachloride

Concen: 27.735 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

Instrument :

MSVOA_W

ClientSampleId :

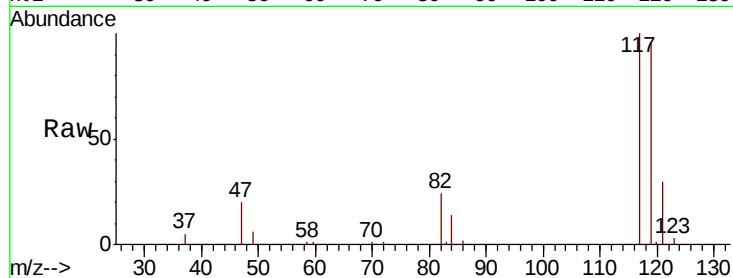
VSTD02581

Tgt Ion:117 Resp: 67836

Ion Ratio Lower Upper

117 100

119 95.2 75.3 112.9



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

25000

20000

15000

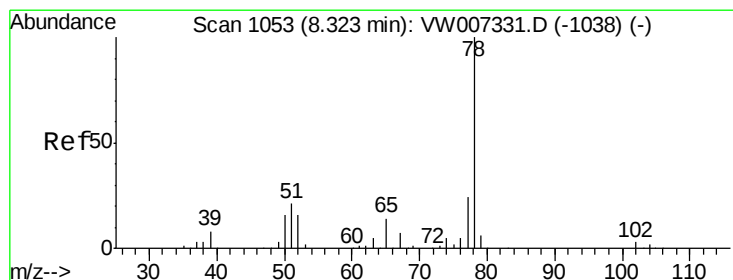
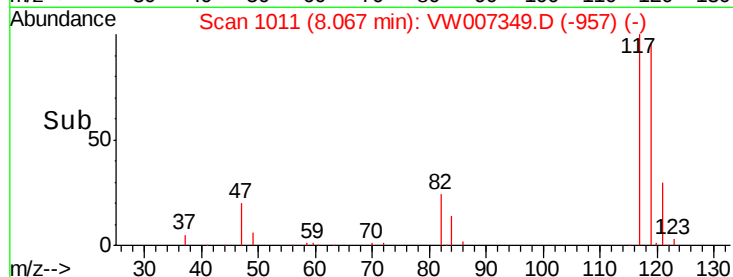
10000

5000

0

Time-->

8.00 8.10 8.20



#34

Benzene

Concen: 26.417 ug/L

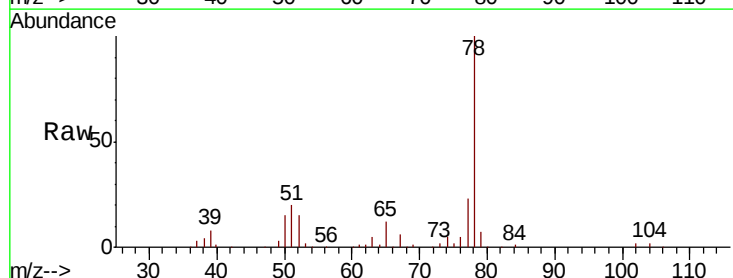
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

Tgt Ion: 78 Resp: 162834



Abundance Ion 78.00 (77.70 to 78.70): VW

8.32

80000

60000

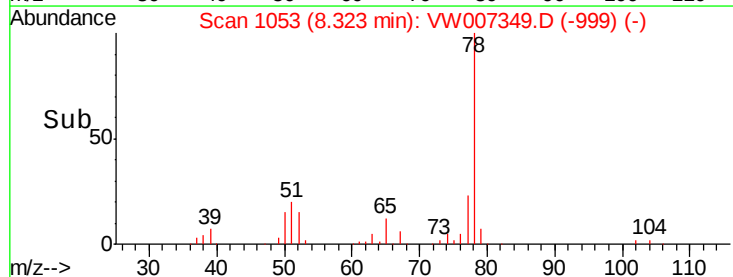
40000

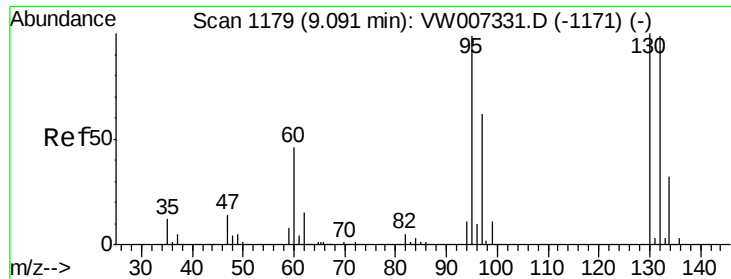
20000

0

Time-->

8.20 8.30 8.40

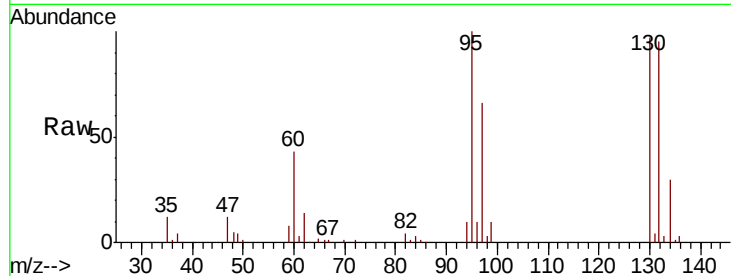




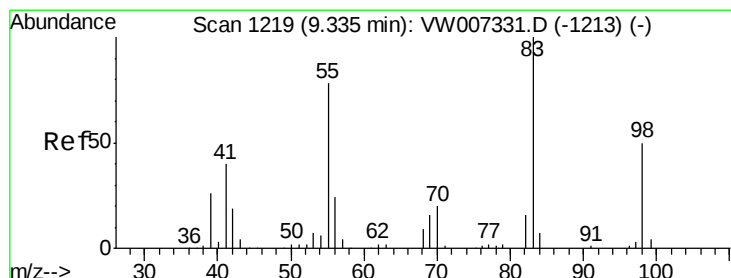
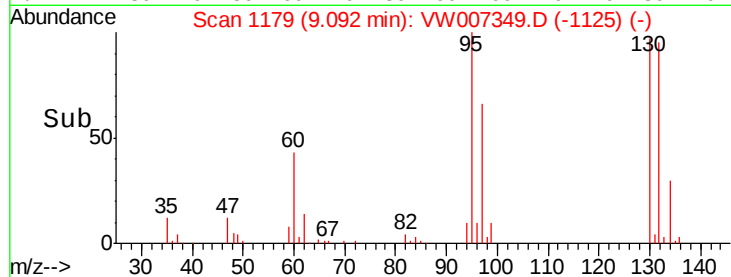
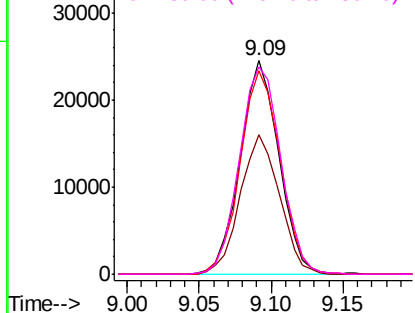
#35
 Trichloroethene
 Concen: 25.866 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. 0.00 min
 Lab File: VW007349.D
 Acq: 08 Dec 2018 11:12

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02581

Tgt Ion:	95	Resp:	45719
Ion	Ratio	Lower	Upper
95	100		
97	66.4	45.8	85.0
132	98.7	68.0	126.4
130	104.0	71.6	133.0

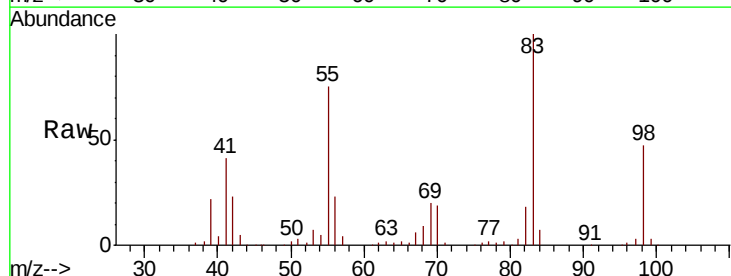


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

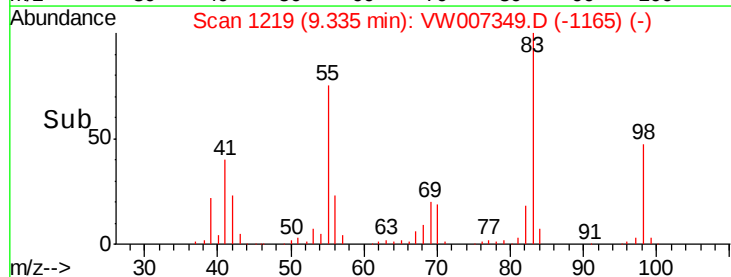
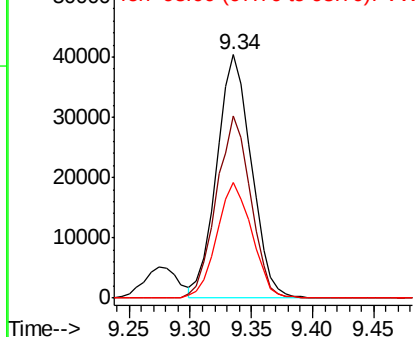


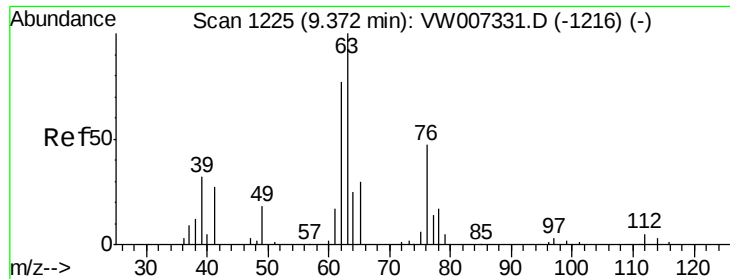
#36
 Methylcyclohexane
 Concen: 26.099 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: VW007349.D
 Acq: 08 Dec 2018 11:12

Tgt Ion:	83	Resp:	79634
Ion	Ratio	Lower	Upper
83	100		
55	74.0	59.4	89.2
98	48.1	38.1	57.1



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

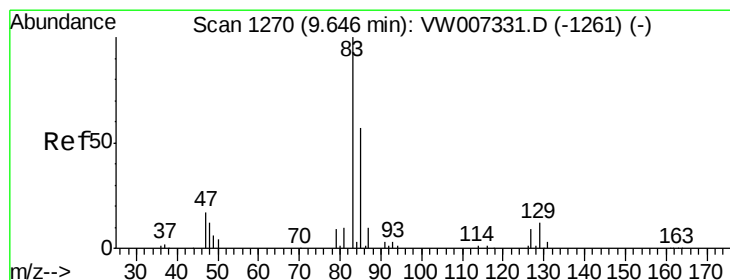
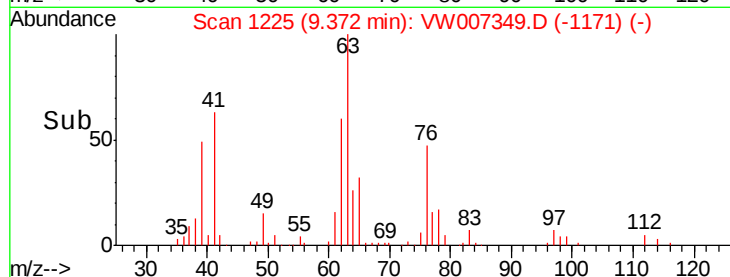
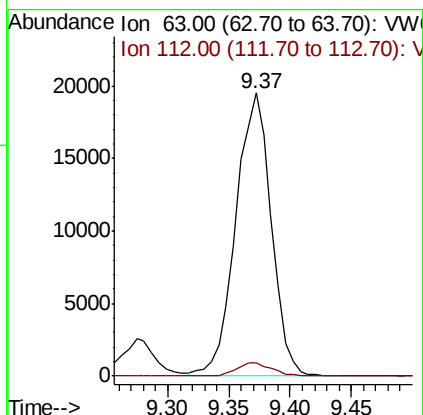
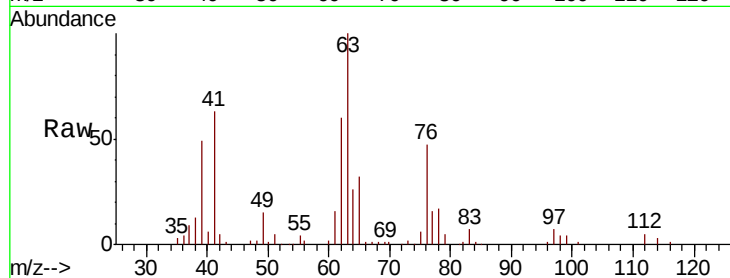




#40
 1,2-Dichloropropane
 Concen: 26.028 ug/L
 RT: 9.37 min Scan# 1225
 Delta R.T. 0.00 min
 Lab File: VW007349.D
 Acq: 08 Dec 2018 11:12

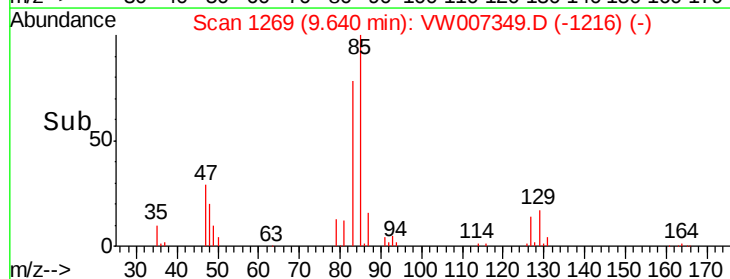
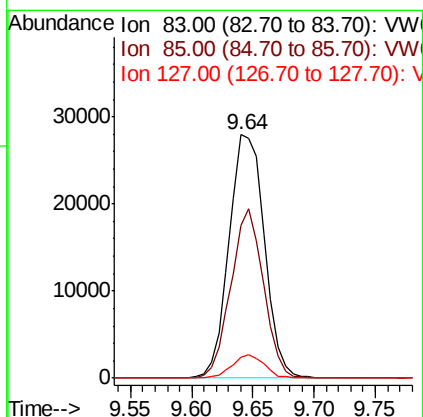
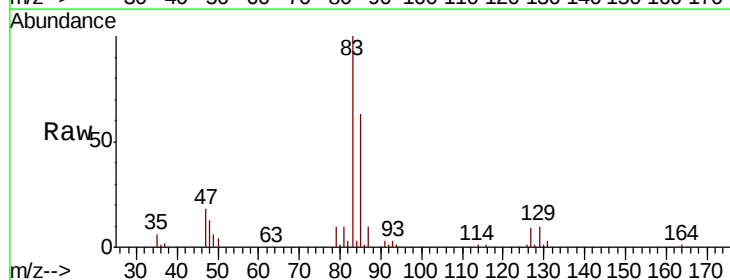
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02581

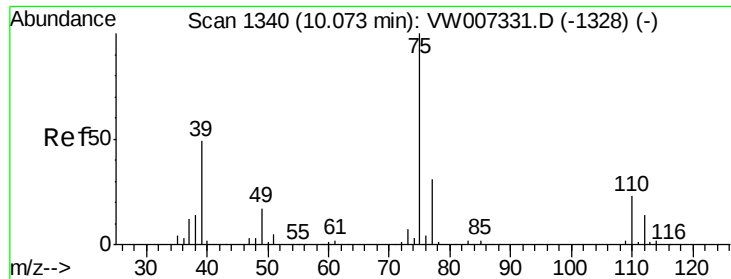
Tgt Ion: 63 Resp: 39244
 Ion Ratio Lower Upper
 63 100
 112 4.6 3.6 5.4



#41
 Bromodichloromethane
 Concen: 25.867 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. -0.01 min
 Lab File: VW007349.D
 Acq: 08 Dec 2018 11:12

Tgt Ion: 83 Resp: 56002
 Ion Ratio Lower Upper
 83 100
 85 62.9 44.9 83.5
 127 8.5 7.4 11.2

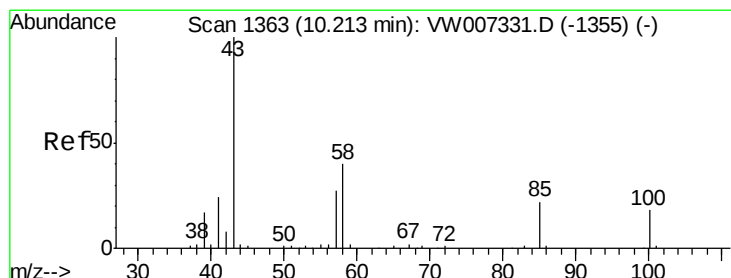
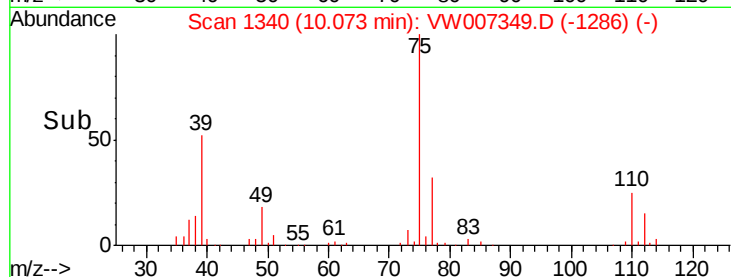
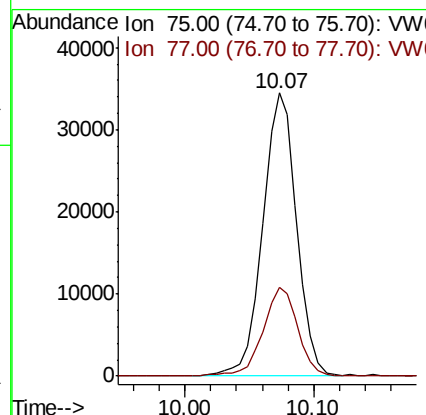
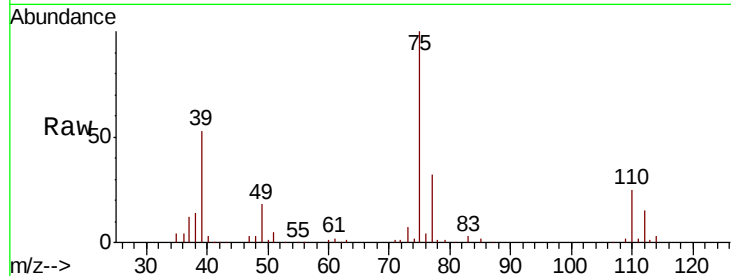




#42
 cis-1,3-Dichloropropene
 Concen: 24.743 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VW007349.D
 Acq: 08 Dec 2018 11:12

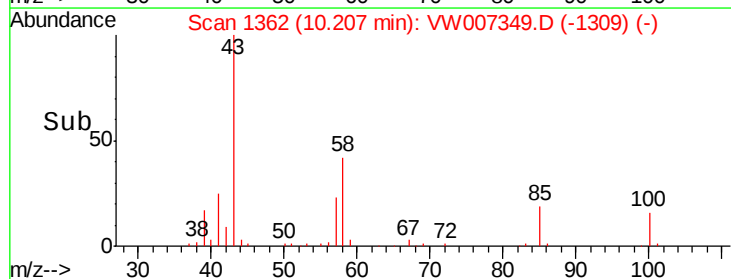
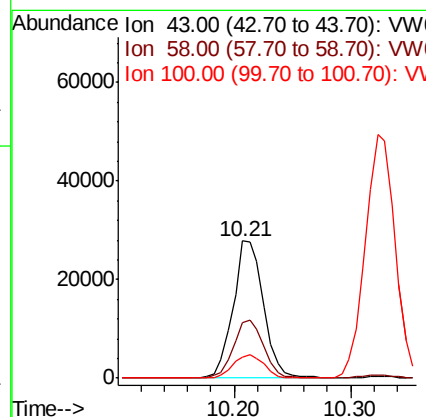
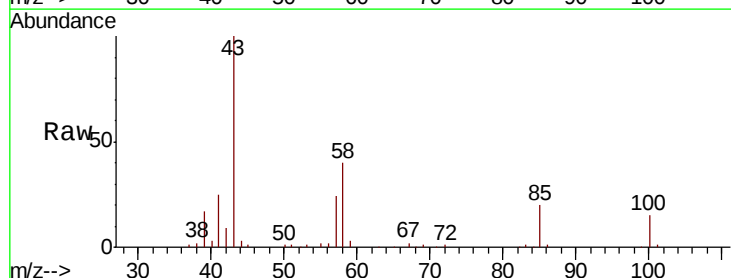
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02581

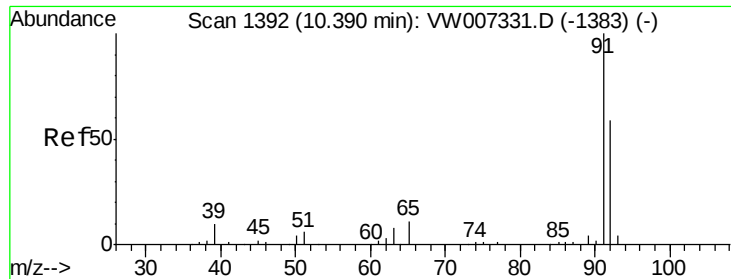
Tgt Ion: 75 Resp: 62653
 Ion Ratio Lower Upper
 75 100
 77 31.5 23.0 42.6



#43
 4-Methyl-2-pentanone
 Concen: 42.391 ug/L
 RT: 10.21 min Scan# 1362
 Delta R.T. -0.01 min
 Lab File: VW007349.D
 Acq: 08 Dec 2018 11:12

Tgt Ion: 43 Resp: 50591
 Ion Ratio Lower Upper
 43 100
 58 41.7 32.6 48.8
 100 17.3 13.8 20.8





#44

Toluene

Concen: 26.675 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

Instrument :

MSVOA_W

ClientSampleId :

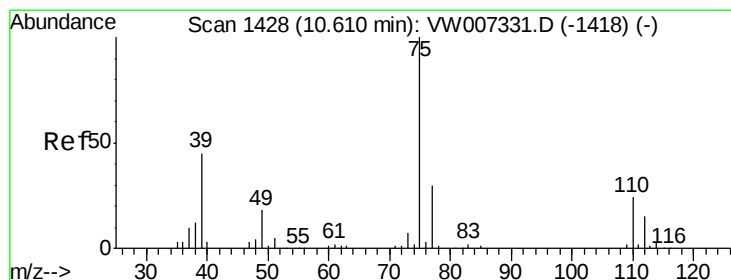
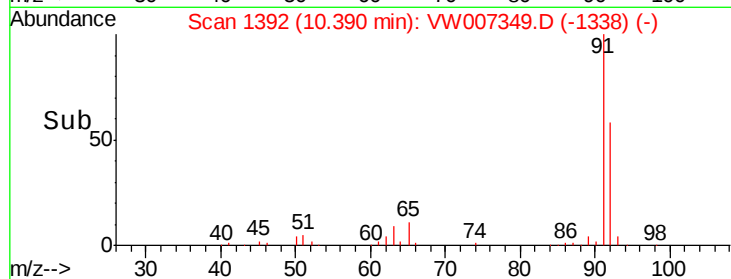
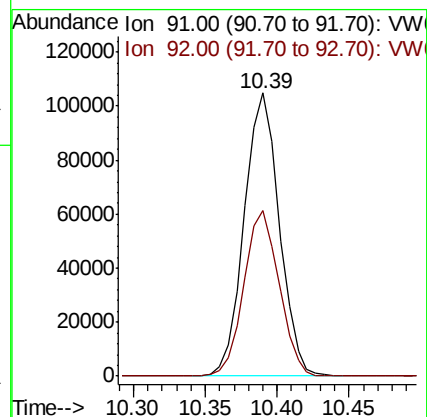
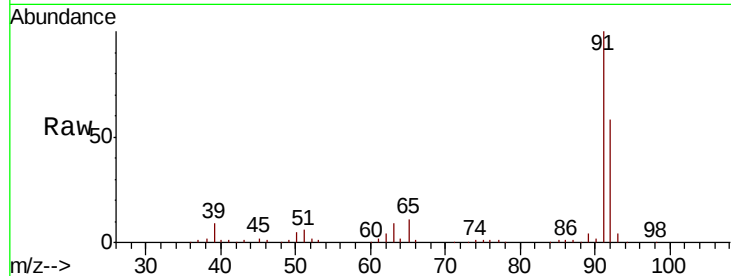
VSTD02581

Tgt Ion: 91 Resp: 177227

Ion Ratio Lower Upper

91 100

92 58.4 38.2 71.0



#45

trans-1,3-Dichloropropene

Concen: 23.629 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW007349.D

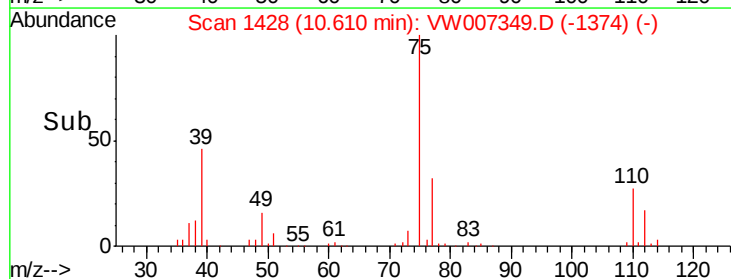
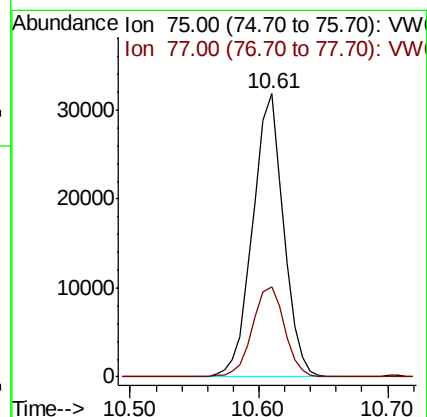
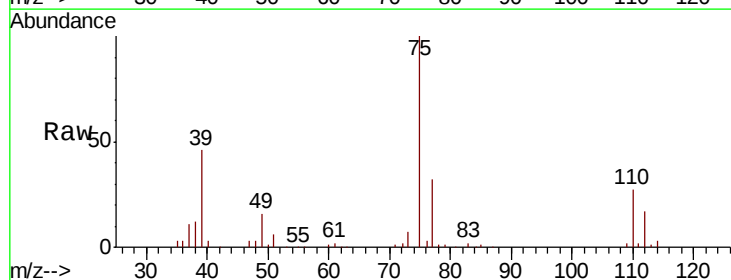
Acq: 08 Dec 2018 11:12

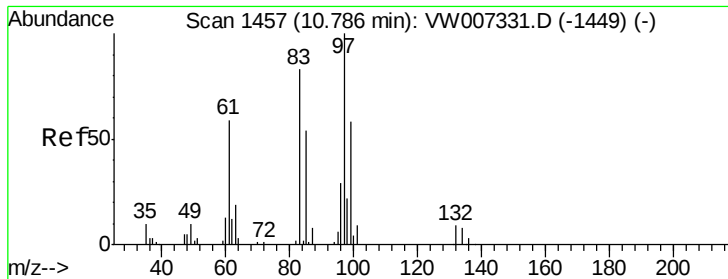
Tgt Ion: 75 Resp: 52544

Ion Ratio Lower Upper

75 100

77 31.8 22.6 42.0





#46

1,1,2-Trichloroethane

Concen: 25.384 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

Instrument :

MSVOA_W

ClientSampleId :

VSTD02581

Tgt Ion: 97 Resp: 31515

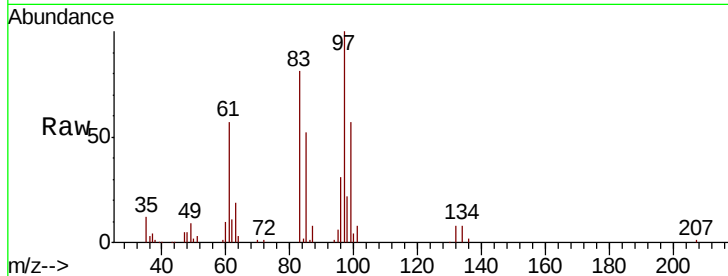
Ion Ratio Lower Upper

97 100

83 80.9 61.2 113.8

85 52.4 42.5 78.9

99 57.4 45.7 84.9

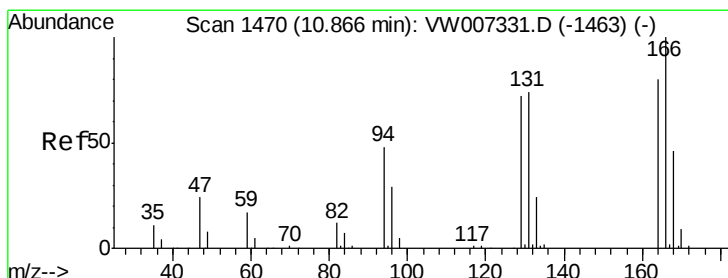
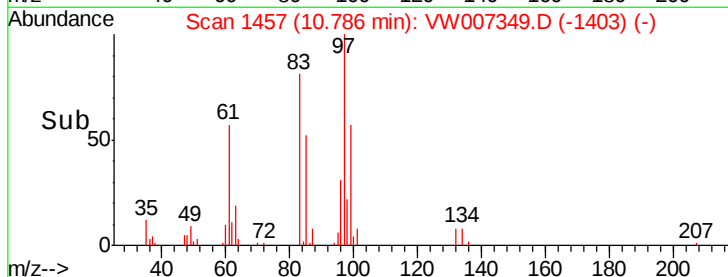
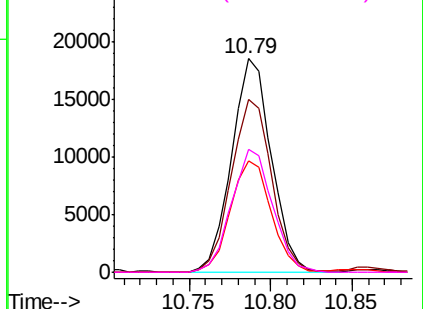


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 25.866 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

Tgt Ion: 164 Resp: 34535

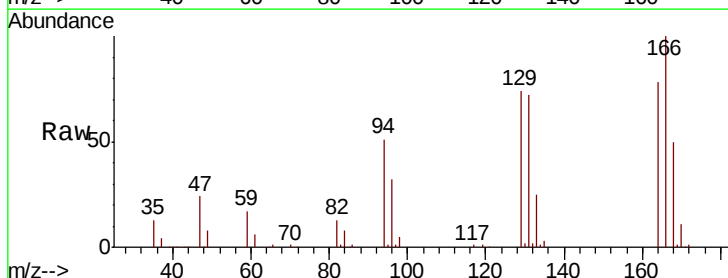
Ion Ratio Lower Upper

164 100

129 94.7 70.8 131.6

131 93.0 70.4 130.8

166 128.6 84.2 156.4

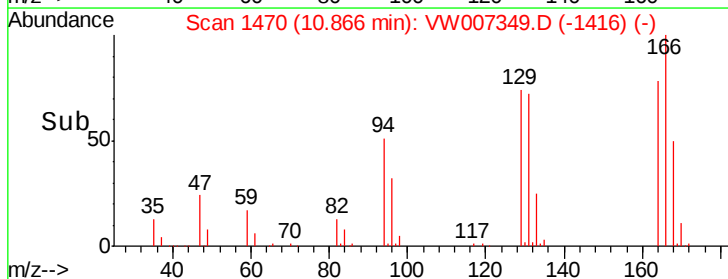
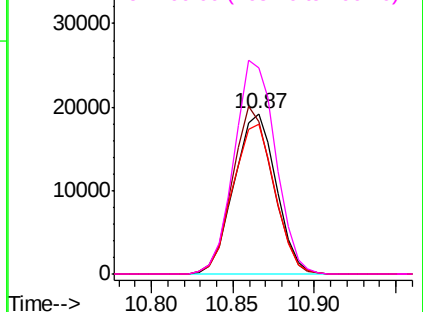


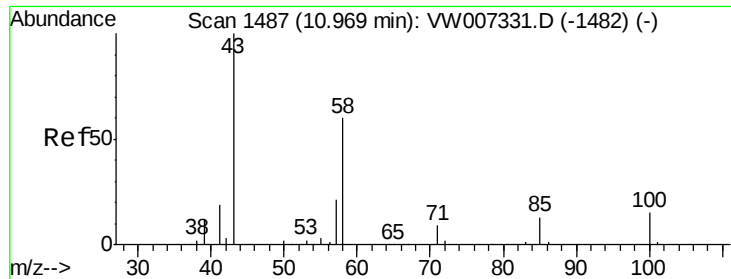
Abundance Ion 164.00 (163.70 to 164.70): V

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

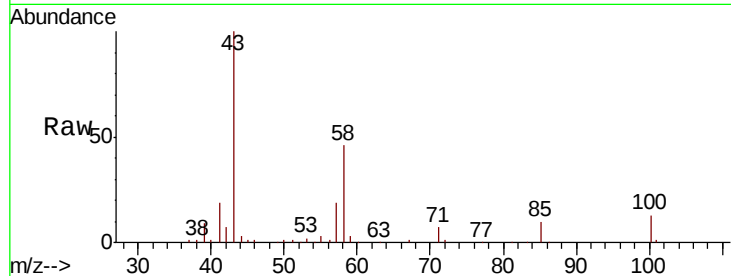




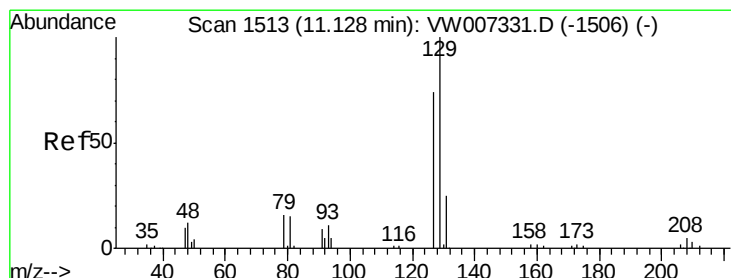
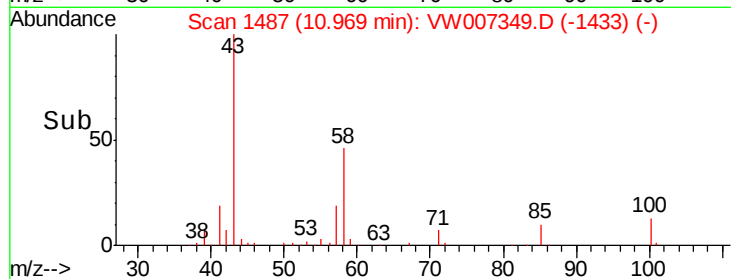
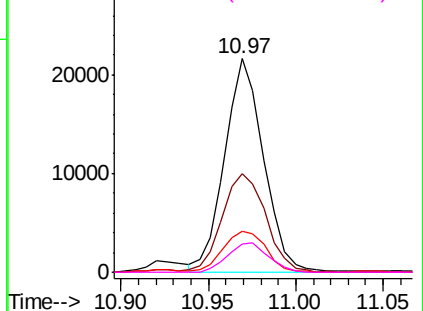
#49
2-Hexanone
Concen: 39.992 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW007349.D
Acq: 08 Dec 2018 11:12

Instrument :
MSVOA_W
ClientSampleId :
VSTD02581

Tgt Ion: 43 Resp: 33544
Ion Ratio Lower Upper
43 100
58 51.4 47.2 70.8
57 21.1 17.6 26.4
100 14.3 12.2 18.2

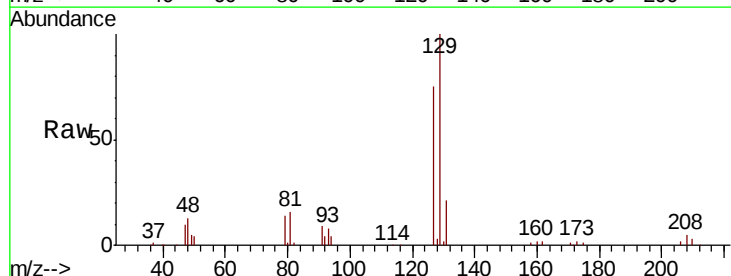


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW
Ion 57.00 (56.70 to 57.70): VW
Ion 100.00 (99.70 to 100.70): VW

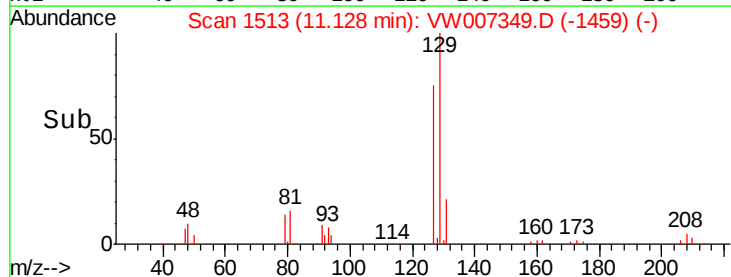
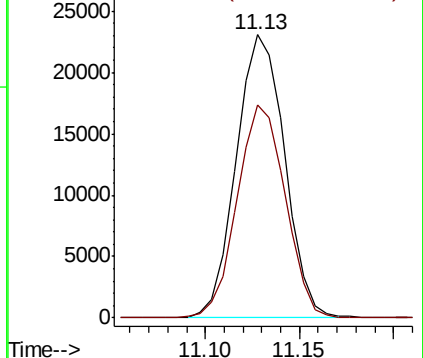


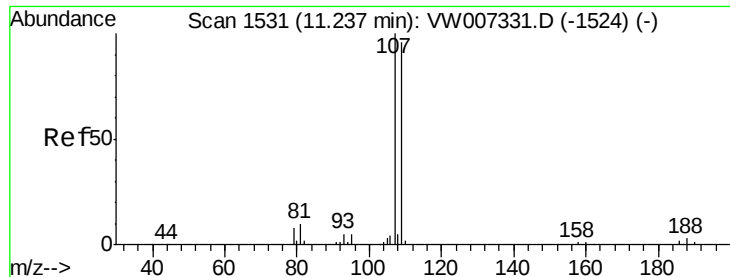
#50
Dibromochloromethane
Concen: 26.886 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW007349.D
Acq: 08 Dec 2018 11:12

Tgt Ion: 129 Resp: 41007
Ion Ratio Lower Upper
129 100
127 75.1 53.8 100.0



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

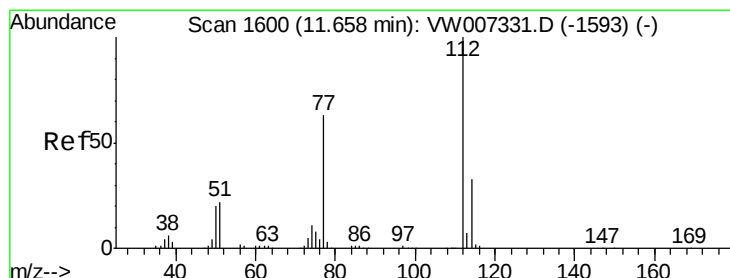
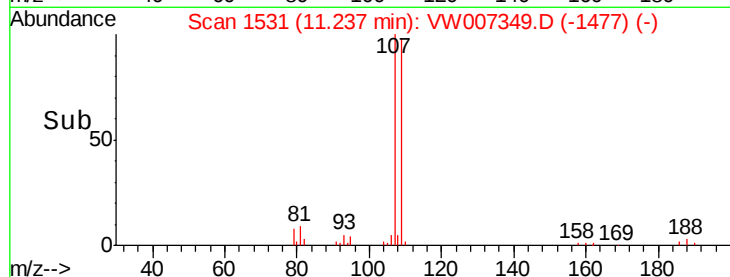
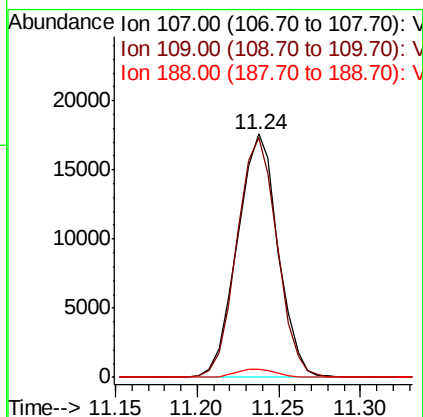
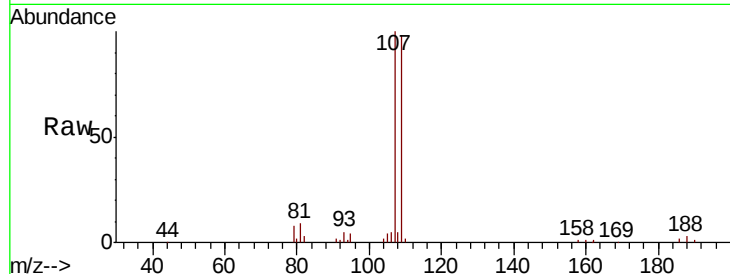




#51
 1,2-Dibromoethane
 Concen: 24.519 ug/L
 RT: 11.24 min Scan# 1531
 Delta R.T. 0.00 min
 Lab File: VW007349.D
 Acq: 08 Dec 2018 11:12

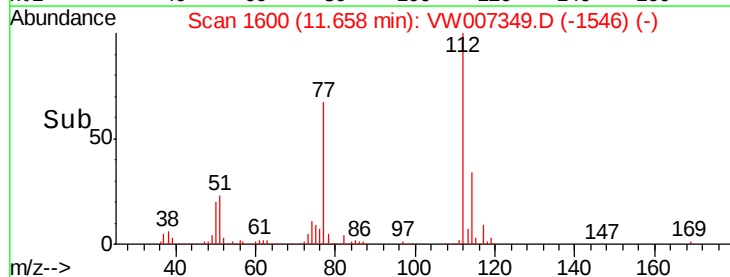
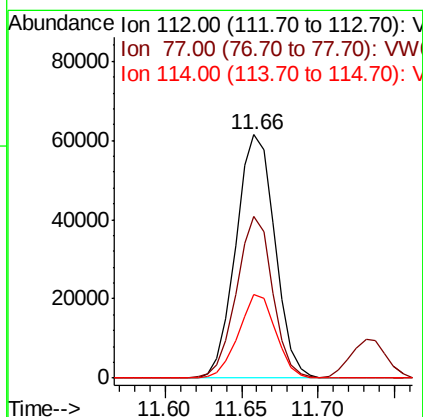
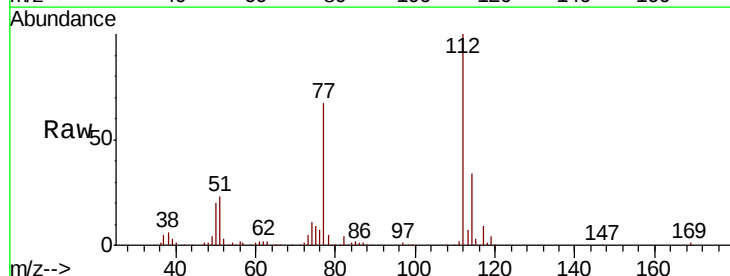
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02581

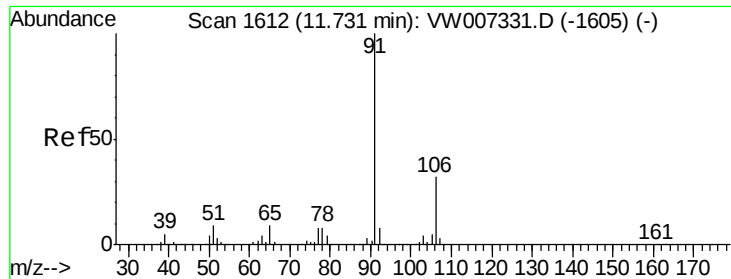
Tgt Ion:107 Resp: 30573
 Ion Ratio Lower Upper
 107 100
 109 98.2 67.6 125.6
 188 3.2 2.6 4.0



#52
 Chlorobenzene
 Concen: 25.217 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. 0.00 min
 Lab File: VW007349.D
 Acq: 08 Dec 2018 11:12

Tgt Ion:112 Resp: 108733
 Ion Ratio Lower Upper
 112 100
 77 66.6 42.6 63.8#
 114 34.5 23.0 42.8





#53

Ethylbenzene

Concen: 25.674 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

Instrument :

MSVOA_W

ClientSampleId :

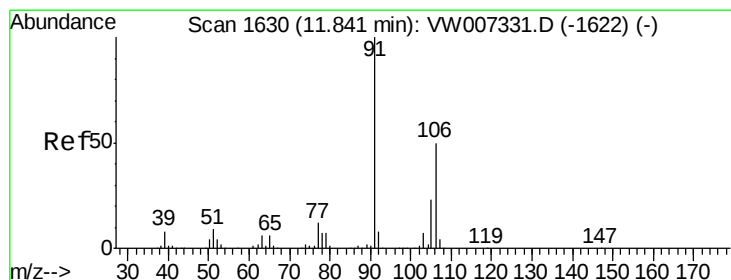
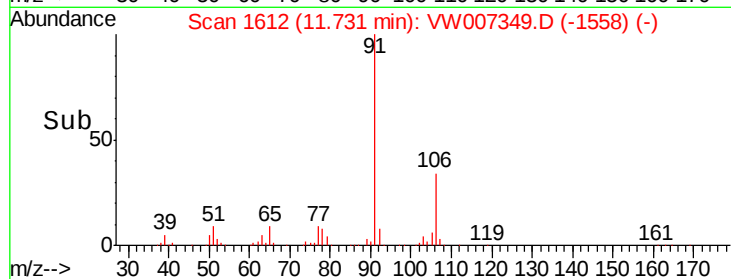
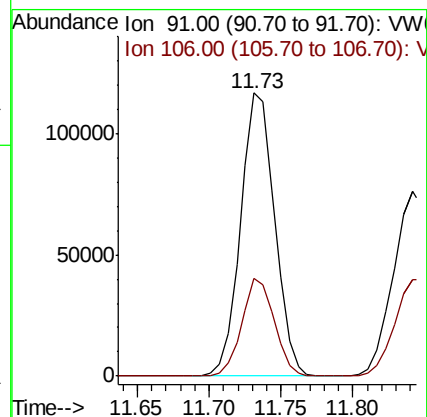
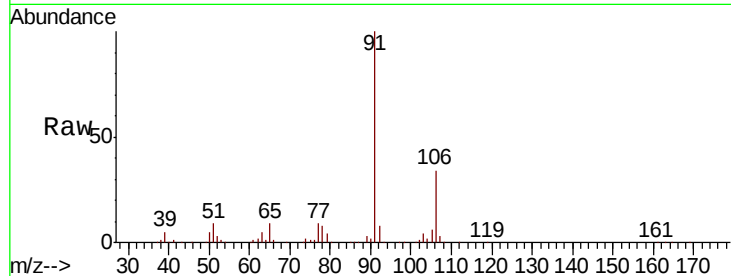
VSTD02581

Tgt Ion: 91 Resp: 191805

Ion Ratio Lower Upper

91 100

106 34.5 20.2 37.4



#54

m,p-Xylene

Concen: 26.409 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW007349.D

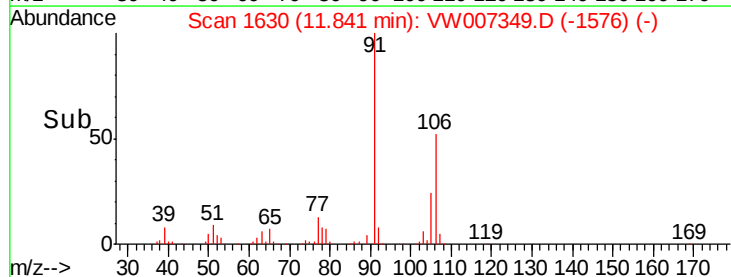
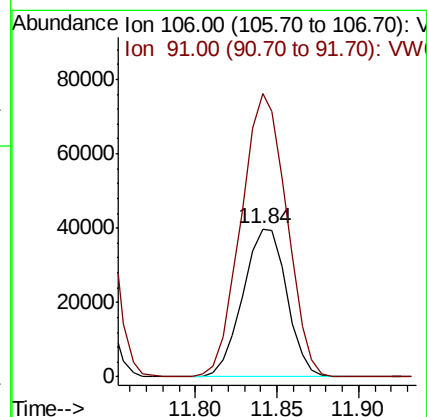
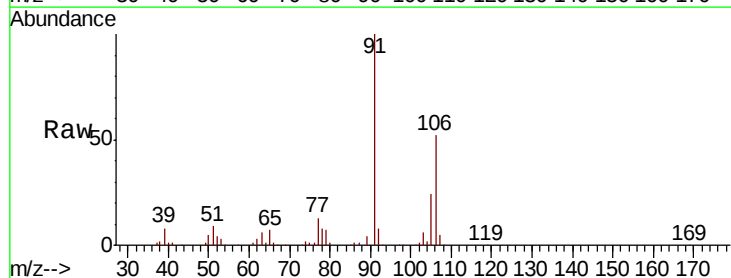
Acq: 08 Dec 2018 11:12

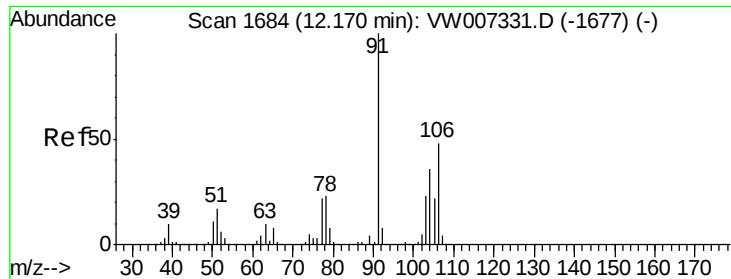
Tgt Ion: 106 Resp: 74947

Ion Ratio Lower Upper

106 100

91 191.0 132.2 245.6

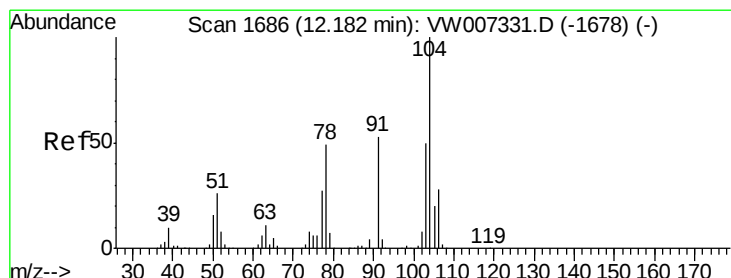
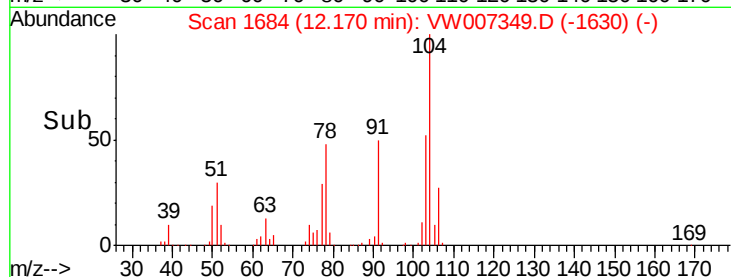
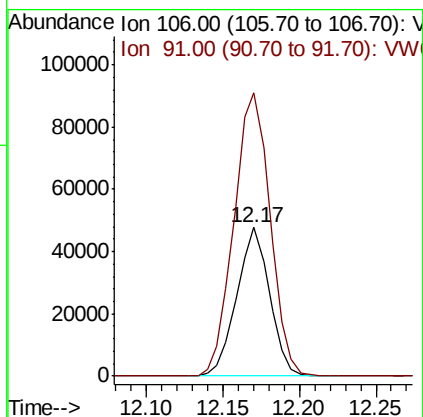
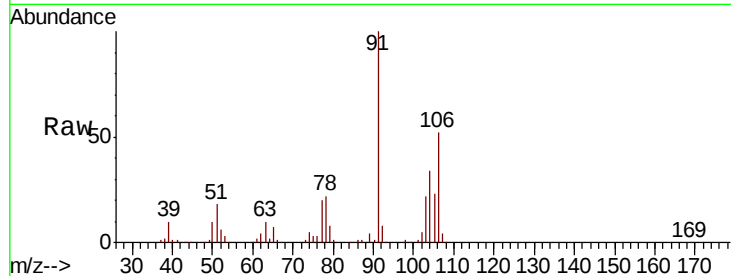




#55
o-xylene
Concen: 26.584 ug/L
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW007349.D
Acq: 08 Dec 2018 11:12

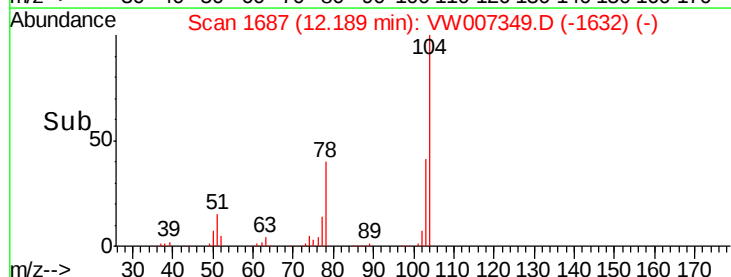
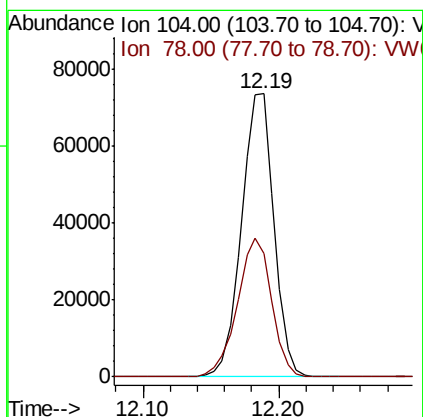
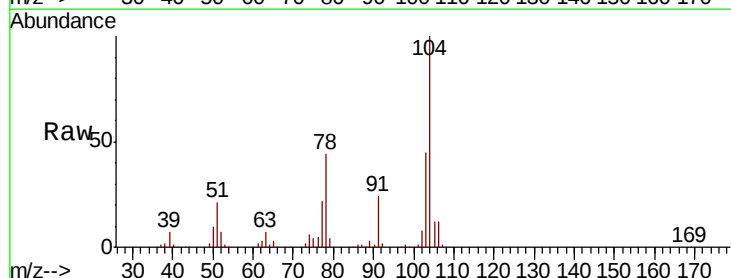
Instrument :
MSVOA_W
ClientSampleId :
VSTD02581

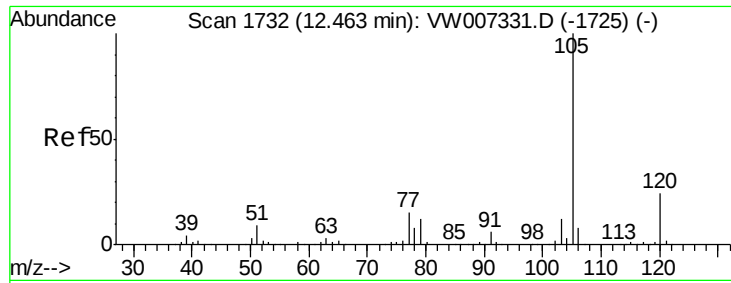
Tgt Ion:106 Resp: 71297
Ion Ratio Lower Upper
106 100
91 190.6 147.0 273.0



#56
Styrene
Concen: 26.670 ug/L
RT: 12.19 min Scan# 1687
Delta R.T. 0.01 min
Lab File: VW007349.D
Acq: 08 Dec 2018 11:12

Tgt Ion:104 Resp: 122609
Ion Ratio Lower Upper
104 100
78 43.8 31.8 59.0





#57

Isopropylbenzene

Concen: 26.679 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

Instrument :

MSVOA_W

ClientSampleId :

VSTD02581

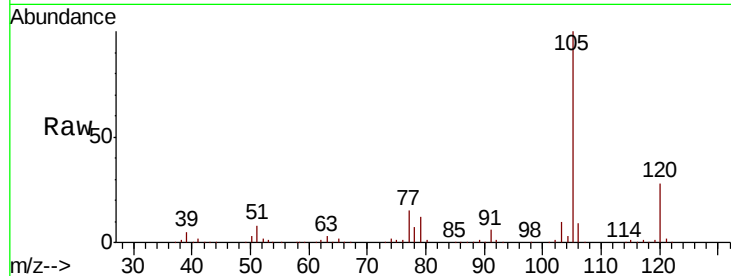
Tgt Ion: 105 Resp: 199694

Ion Ratio Lower Upper

105 100

120 26.6 20.6 30.8

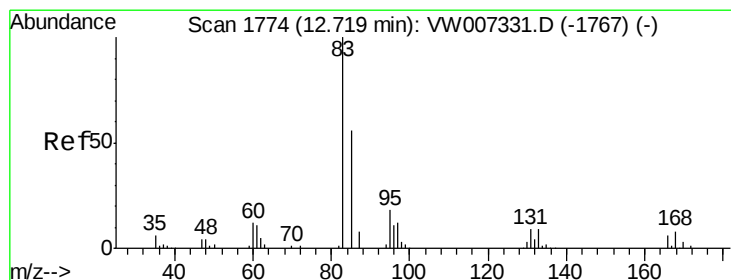
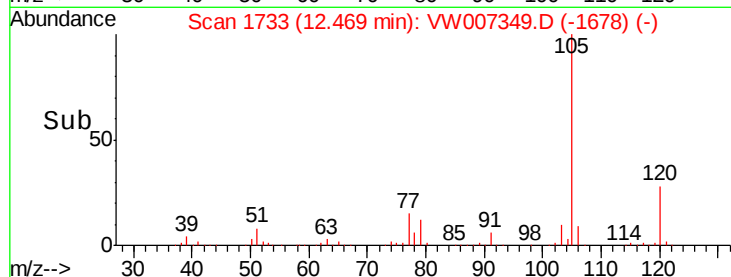
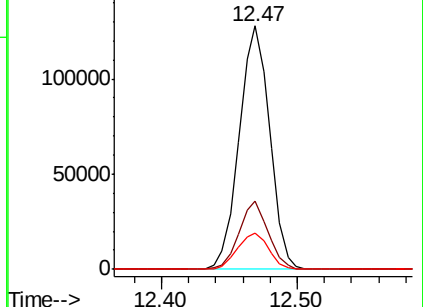
77 15.3 12.2 18.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 24.089 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

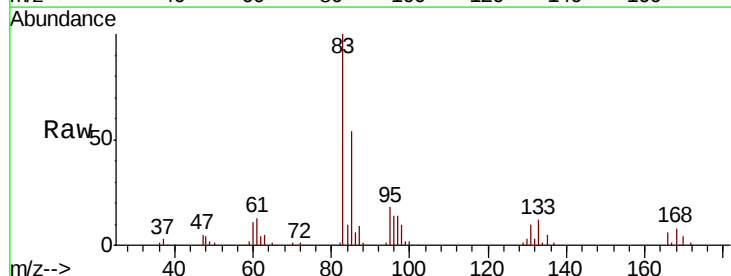
Tgt Ion: 83 Resp: 37075

Ion Ratio Lower Upper

83 100

85 53.9 46.2 85.8

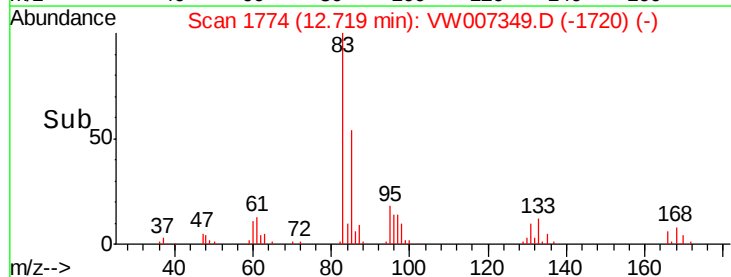
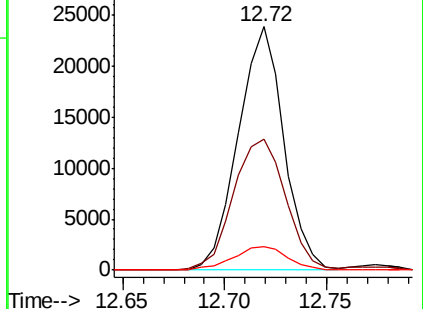
131 9.6 7.8 11.6

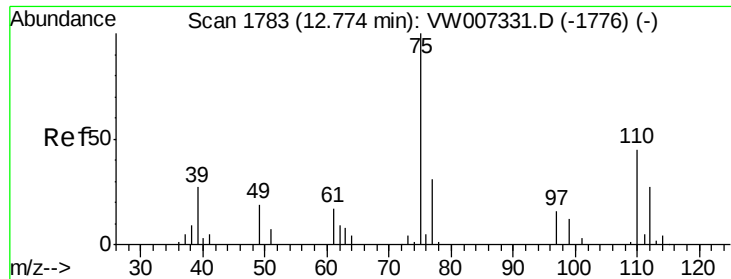


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 23.373 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. 0.00 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

Instrument :

MSVOA_W

ClientSampleId :

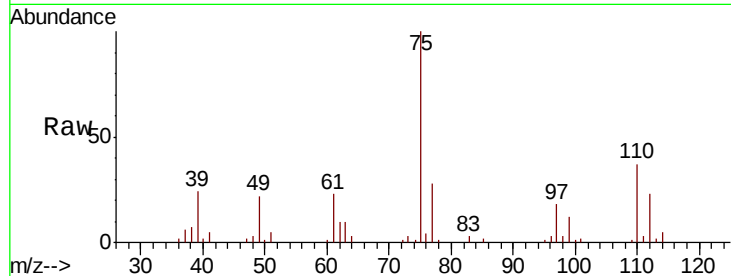
VSTD02581

Tgt Ion: 75 Resp: 28475

Ion Ratio Lower Upper

75 100

77 31.9 26.5 39.7



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

12.77

20000

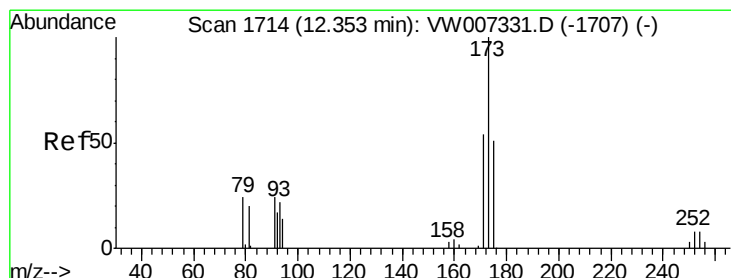
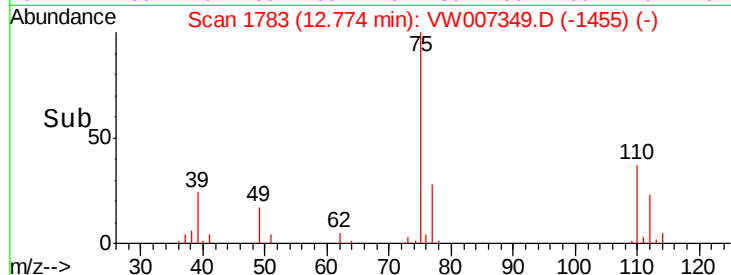
15000

10000

5000

0

Time--> 12.70 12.75 12.80



#62

Bromoform

Concen: 24.813 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

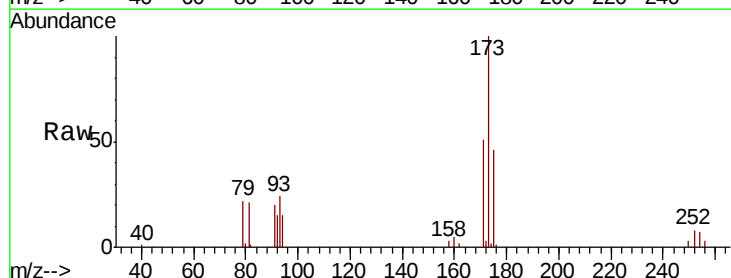
Tgt Ion: 173 Resp: 22630

Ion Ratio Lower Upper

173 100

175 47.2 38.6 58.0

254 7.6 6.4 9.6



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

12.35

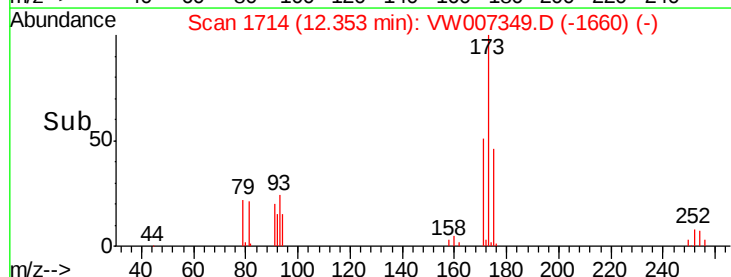
15000

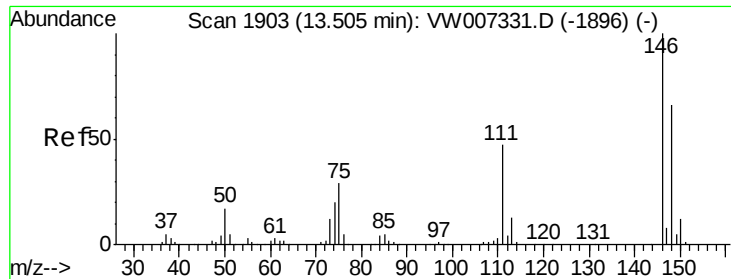
10000

5000

0

Time--> 12.30 12.35 12.40

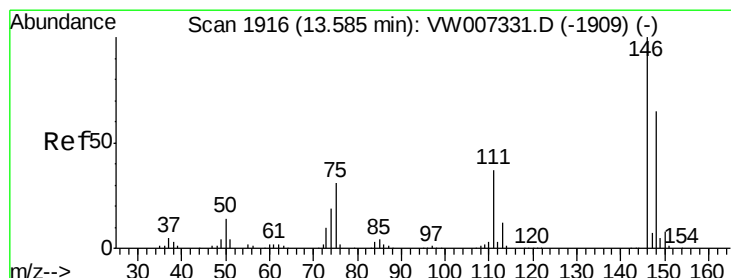
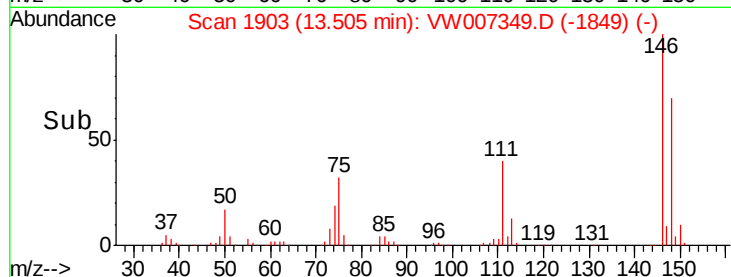
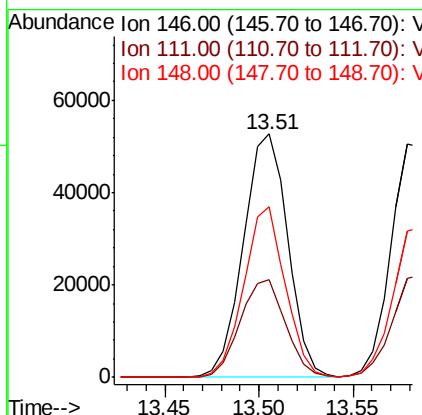
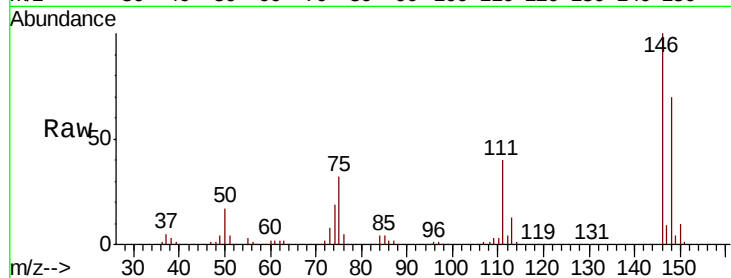




#63
 1,3-Dichlorobenzene
 Concen: 25.168 ug/L
 RT: 13.51 min Scan# 1903
 Delta R.T. 0.00 min
 Lab File: VW007349.D
 Acq: 08 Dec 2018 11:12

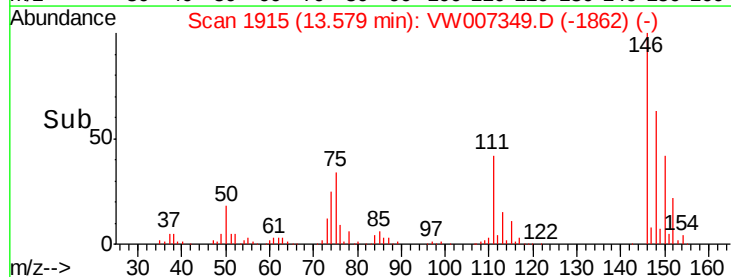
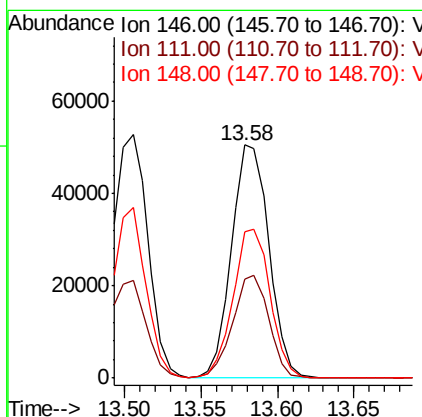
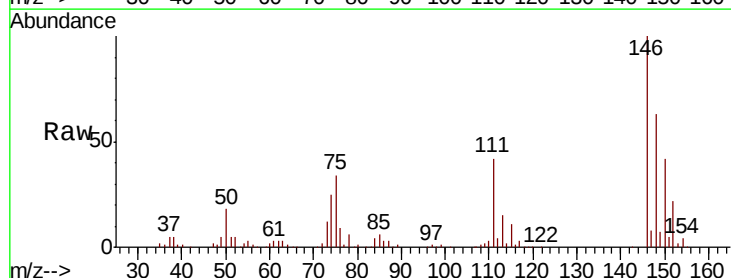
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02581

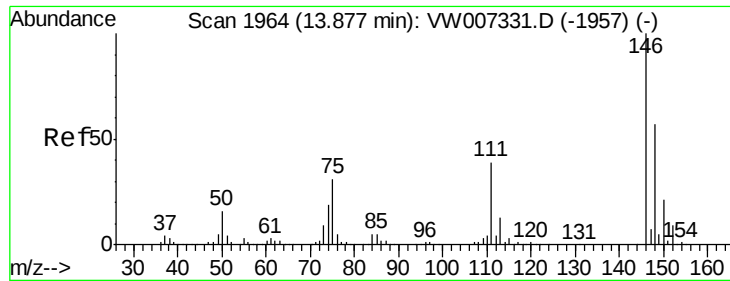
Tgt Ion:146 Resp: 86107
 Ion Ratio Lower Upper
 146 100
 111 40.3 31.0 57.6
 148 70.0 44.7 83.1



#64
 1,4-Dichlorobenzene
 Concen: 25.159 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.01 min
 Lab File: VW007349.D
 Acq: 08 Dec 2018 11:12

Tgt Ion:146 Resp: 85810
 Ion Ratio Lower Upper
 146 100
 111 42.3 24.8 46.0
 148 62.9 38.7 71.9

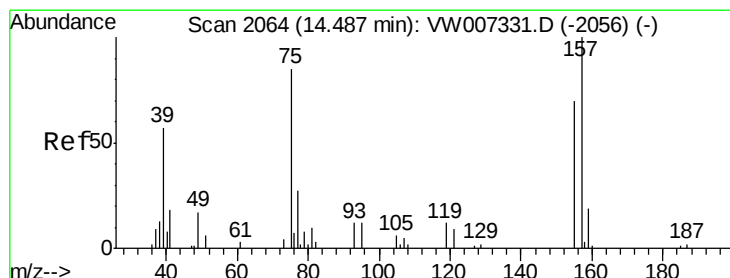
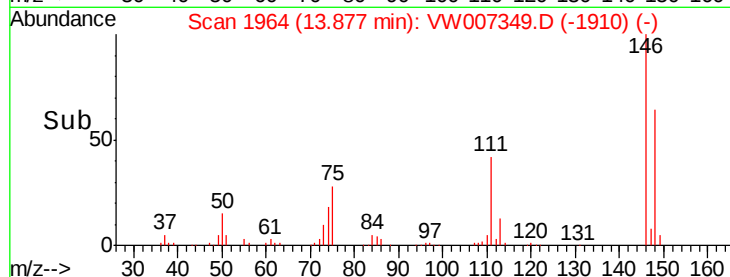
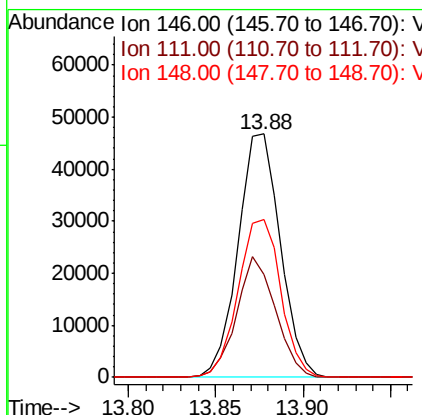
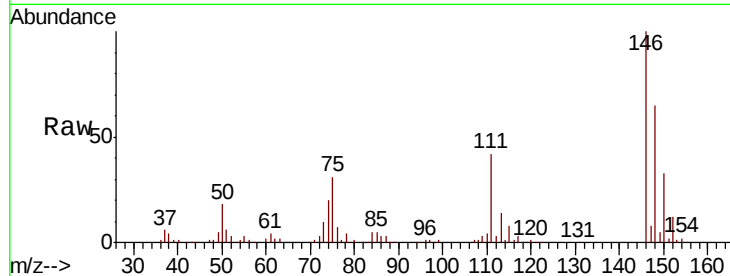




#65
 1,2-Dichlorobenzene
 Concen: 25.754 ug/L
 RT: 13.88 min Scan# 1964
 Delta R.T. 0.00 min
 Lab File: VW007349.D
 Acq: 08 Dec 2018 11:12

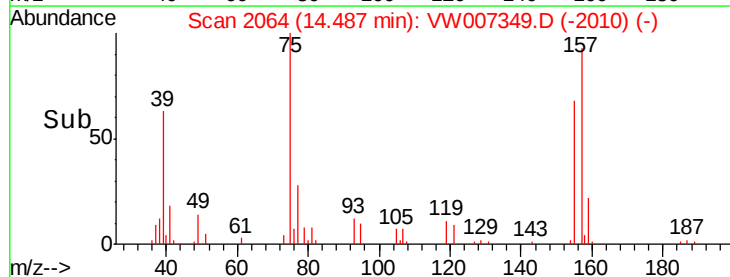
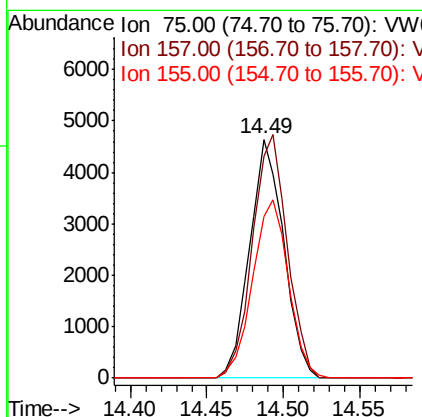
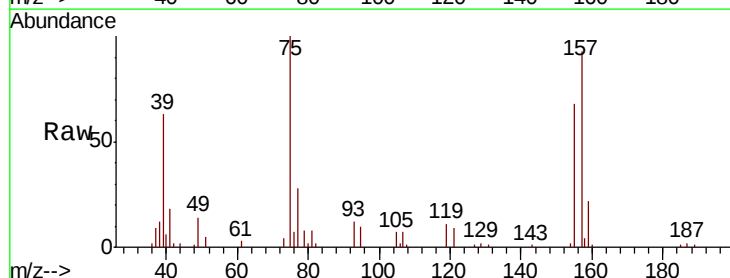
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02581

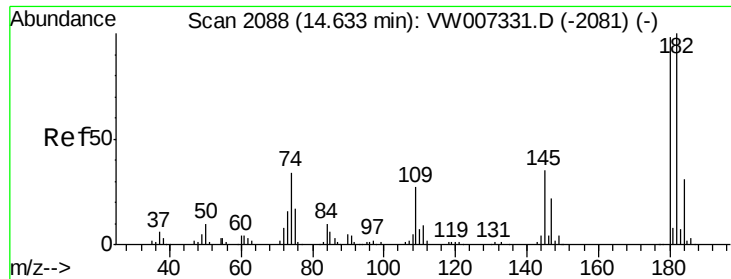
Tgt Ion:146 Resp: 78855
 Ion Ratio Lower Upper
 146 100
 111 42.2 39.3 58.9
 148 64.7 51.8 77.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 22.140 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW007349.D
 Acq: 08 Dec 2018 11:12

Tgt Ion: 75 Resp: 7180
 Ion Ratio Lower Upper
 75 100
 157 93.0 86.0 129.0
 155 67.8 64.9 97.3

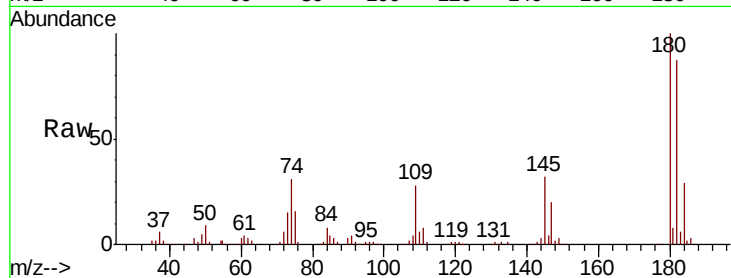




#67
 1,3,5-Trichlorobenzene
 Concen: 25.468 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VW007349.D
 Acq: 08 Dec 2018 11:12

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02581

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.1	74.6	111.8
184	29.6	24.7	37.1
145	32.2	27.2	40.8



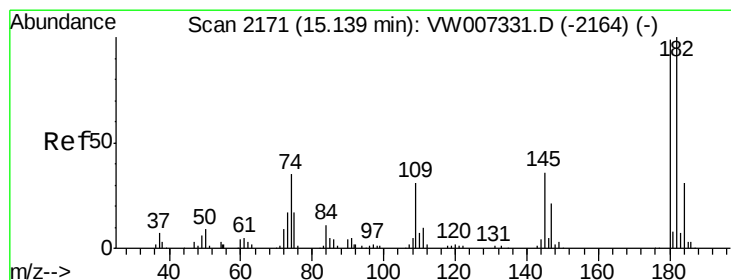
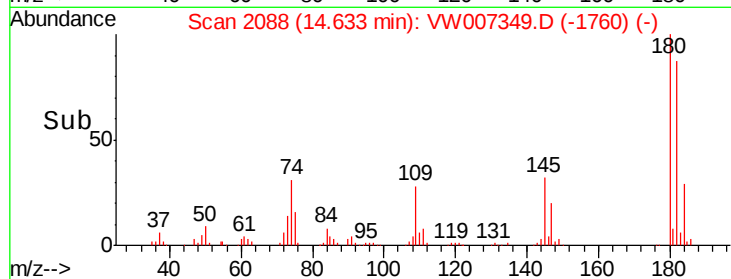
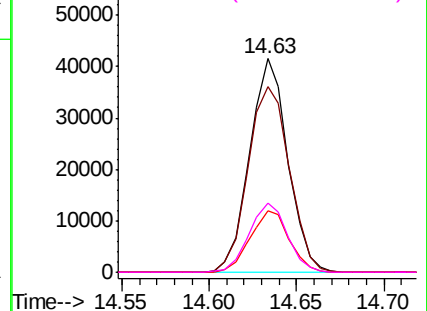
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

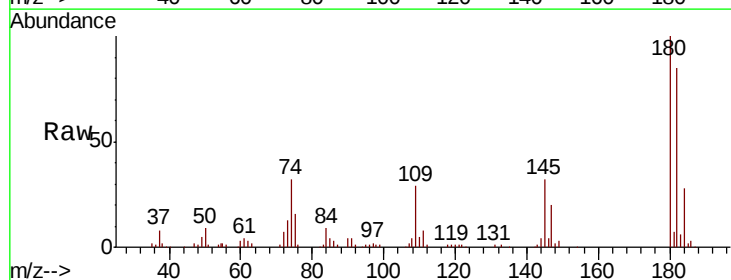
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 25.607 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW007349.D
 Acq: 08 Dec 2018 11:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.5	77.4	116.2
145	33.4	28.4	42.6

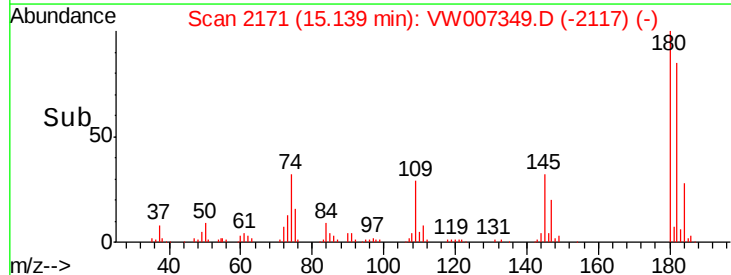
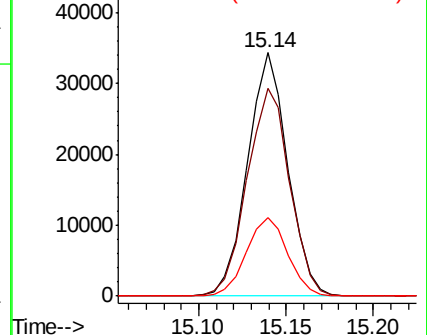


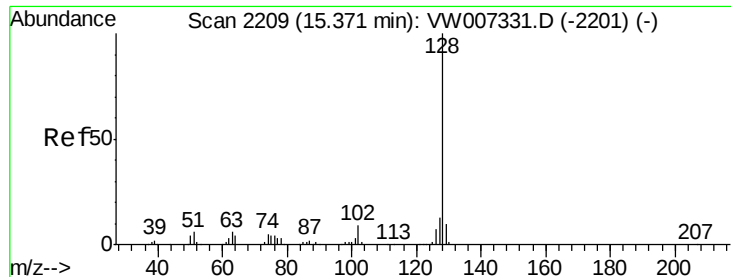
Abundance

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





#69

Naphthalene

Concen: 22.928 ug/L

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

Instrument :

MSVOA_W

ClientSampleId :

VSTD02581

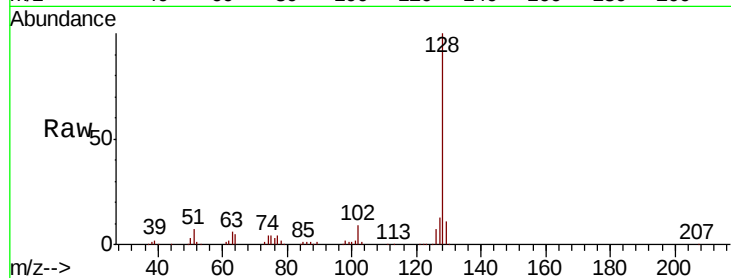
Tgt Ion:128 Resp: 121095

Ion Ratio Lower Upper

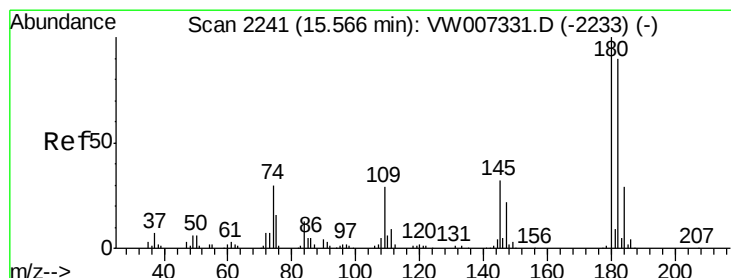
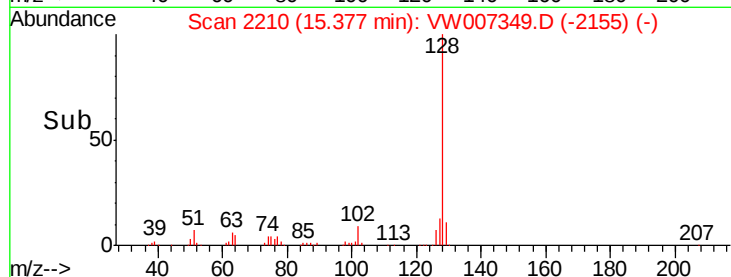
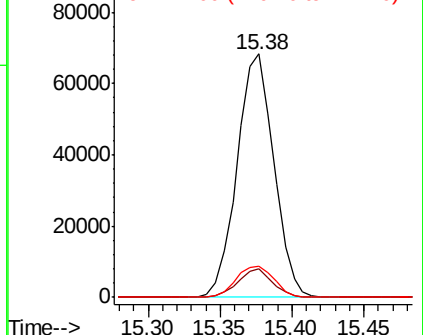
128 100

129 10.9 8.8 13.2

127 13.4 10.7 16.1



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: 25.415 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.01 min

Lab File: VW007349.D

Acq: 08 Dec 2018 11:12

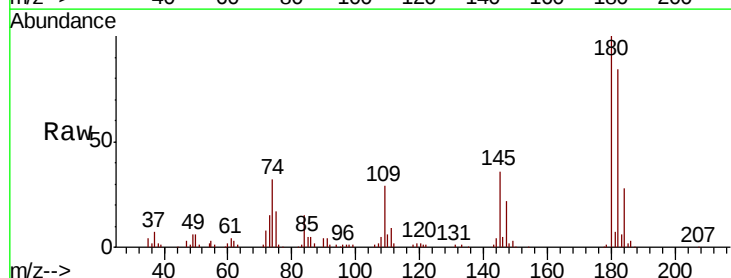
Tgt Ion:180 Resp: 49369

Ion Ratio Lower Upper

180 100

182 90.1 76.2 114.4

145 36.4 27.4 41.0



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

