

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW120718\
 Data File : VW007312.D
 Acq On : 07 Dec 2018 17:10
 Operator : SY/AP
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02598

Quant Time: Dec 08 01:54:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120718S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 07 16:03:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	157502	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	134865	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	67688	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	27865	27.16	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	108.64%
7) Chloroethane-d5	2.89	69	20975	24.14	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	96.56%
10) 1,1-Dichloroethene-d2	4.01	63	86876	24.55	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	98.20%
20) 2-Butanone-d5	7.07	46	21259	32.88	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	65.76%
24) Chloroform-d	7.65	84	85655	23.06	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	92.24%
26) 1,2-Dichloroethane-d4	8.31	65	45466	21.50	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	86.00%
29) Benzene-d6	8.27	84	168280	22.97	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	91.88%
33) 1,2-Dichloropropane-d6	9.27	67	45800	21.91	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	87.64%
37) Toluene-d8	10.32	98	161896	23.57	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.28%
38) trans-1,3-Dichloropropene-	10.58	79	23531	22.02	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	88.08%
39) 2-Hexanone-d5	10.93	63	16751	33.29	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	66.58%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	36743	19.29	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	77.16%
61) 1,2-Dichlorobenzene-d4	13.86	152	54471	22.88	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	91.52%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	44823	26.059	ug/L	85
3) Chloromethane	2.21	50	33210	24.118	ug/L	98
5) Vinyl chloride	2.37	62	36045	27.747	ug/L	99
6) Bromomethane	2.78	94	22260	24.774	ug/L	97
8) Chloroethane	2.93	64	19509	24.948	ug/L	98
9) Trichlorofluoromethane	3.26	101	35961	24.115	ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	48133	24.213	ug/L	96
12) 1,1-Dichloroethene	4.03	96	45116	24.391	ug/L	90
13) Acetone	4.12	43	23475	31.219	ug/L	99
14) Carbon disulfide	4.37	76	137717	25.500	ug/L	98
15) Methyl Acetate	4.66	43	19942	17.686	ug/L #	90
16) Methylene chloride	4.90	84	47684	18.737	ug/L	93
17) Methyl tert-butyl Ether	5.42	73	66675	22.168	ug/L	100
18) trans-1,2-Dichloroethene	5.42	96	48185	24.282	ug/L	99
19) 1,1-Dichloroethane	6.21	63	81829	24.192	ug/L	97
21) 2-Butanone	7.17	43	28392	35.130	ug/L	99
22) cis-1,2-Dichloroethene	7.17	96	52445	24.017	ug/L	96

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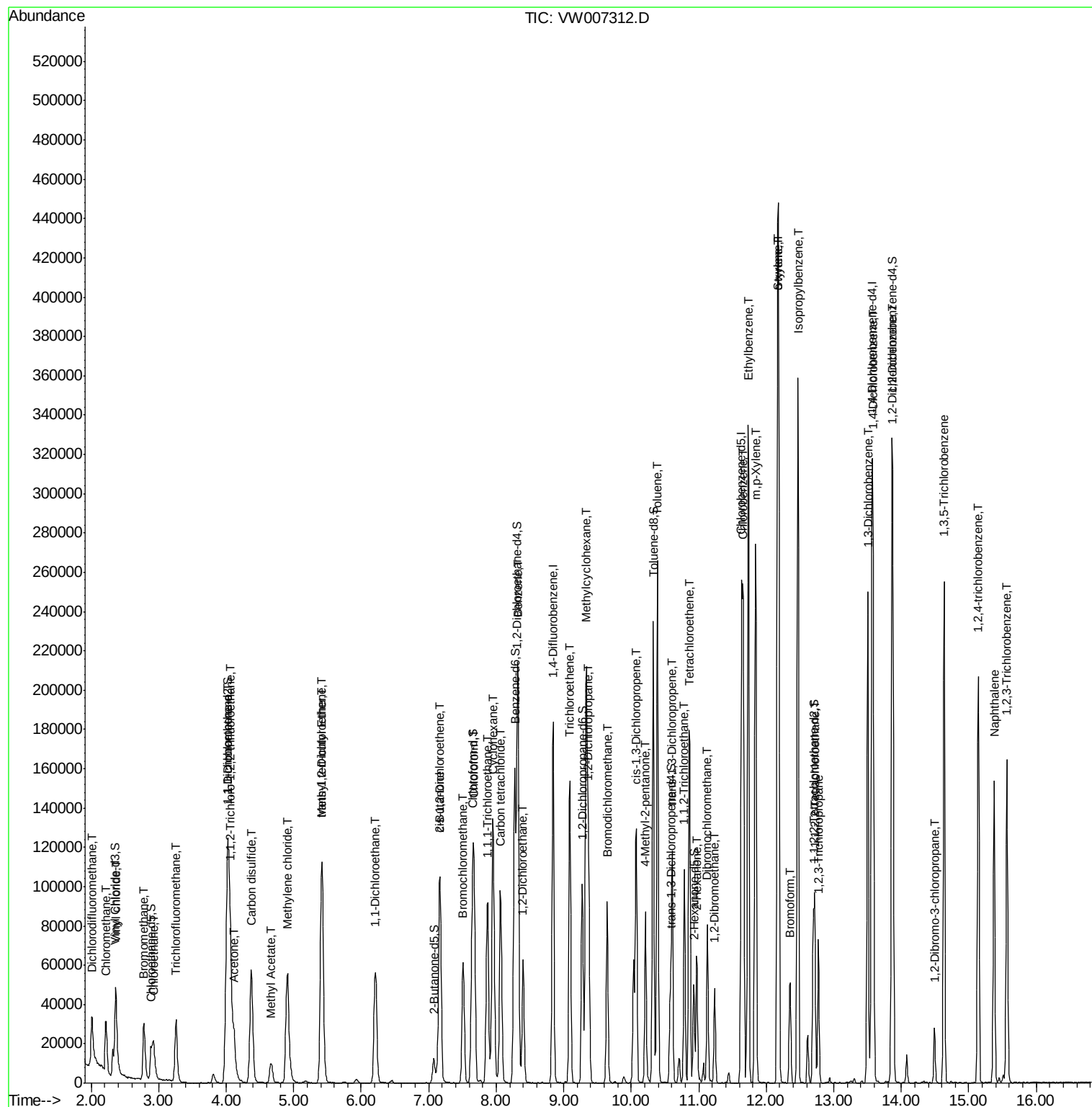
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	23284	23.390	ug/L	97
25) Chloroform	7.67	83	89069	24.336	ug/L	99
27) 1,2-Dichloroethane	8.40	62	59466	22.730	ug/L	99
30) Cyclohexane	7.95	56	79522	24.579	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	77809	24.513	ug/L	99
32) Carbon tetrachloride	8.06	117	74924	24.426	ug/L	99
34) Benzene	8.32	78	189314	24.490	ug/L	100
35) Trichloroethene	9.09	95	53114	23.961	ug/L	99
36) Methylcyclohexane	9.34	83	92529	24.180	ug/L	99
40) 1,2-Dichloropropane	9.37	63	45598	24.114	ug/L	100
41) Bromodichloromethane	9.65	83	62355	22.966	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	76516	24.095	ug/L	95
43) 4-Methyl-2-pentanone	10.21	43	54219	36.226	ug/L	99
44) Toluene	10.38	91	201472	24.180	ug/L	100
45) trans-1,3-Dichloropropene	10.61	75	63918	22.920	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	33371	21.433	ug/L	92
47) Tetrachloroethene	10.87	164	39210	23.417	ug/L	91
49) 2-Hexanone	10.97	43	39797	37.833	ug/L	94
50) Dibromochloromethane	11.13	129	42554	22.247	ug/L	91
51) 1,2-Dibromoethane	11.23	107	33374	21.342	ug/L	90
52) Chlorobenzene	11.66	112	127091	23.502	ug/L	98
53) Ethylbenzene	11.73	91	236925	25.288	ug/L	97
54) m,p-Xylene	11.84	106	86418	24.281	ug/L	70
55) o-xylene	12.16	106	81673	24.283	ug/L	97
56) Styrene	12.18	104	139141	24.134	ug/L	94
57) Isopropylbenzene	12.47	105	226384	24.116	ug/L	97
58) 1,1,1,2,2-Tetrachloroethane	12.72	83	38088	19.733	ug/L #	96
59) 1,2,3-Trichloropropane	12.77	75	29608	19.378	ug/L	100
62) Bromoform	12.35	173	24001	20.705	ug/L	99
63) 1,3-Dichlorobenzene	13.51	146	105729	24.314	ug/L	88
64) 1,4-Dichlorobenzene	13.58	146	99263	22.898	ug/L	83
65) 1,2-Dichlorobenzene	13.88	146	92473	23.761	ug/L	100
66) 1,2-Dibromo-3-chloropropan	14.49	75	7839	19.018	ug/L	81
67) 1,3,5-Trichlorobenzene	14.63	180	76686	24.345	ug/L	98
68) 1,2,4-trichlorobenzene	15.14	180	64381	23.707	ug/L	99
69) Naphthalene	15.38	128	135071	20.121	ug/L	99
70) 1,2,3-Trichlorobenzene	15.57	180	55991	22.678	ug/L	99

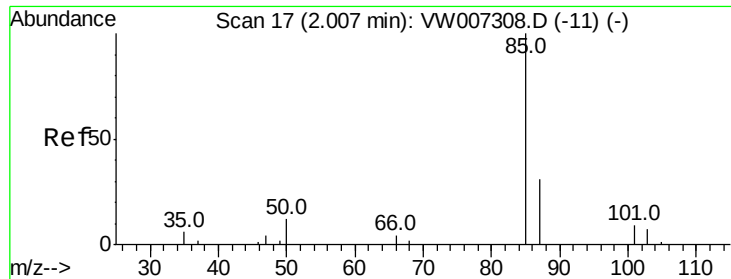
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 26.059 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

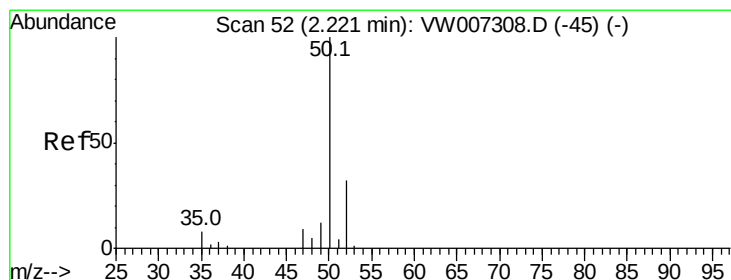
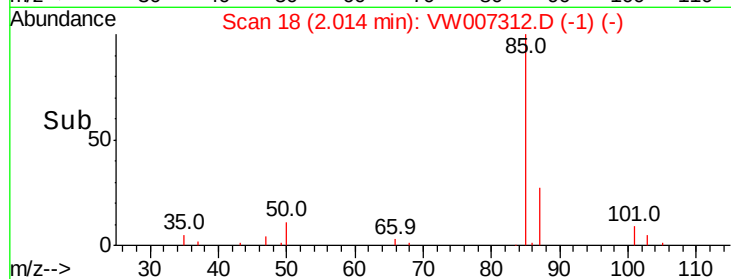
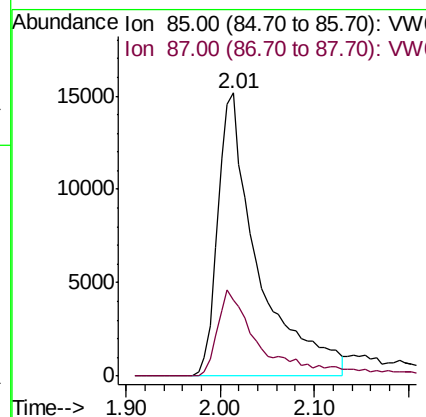
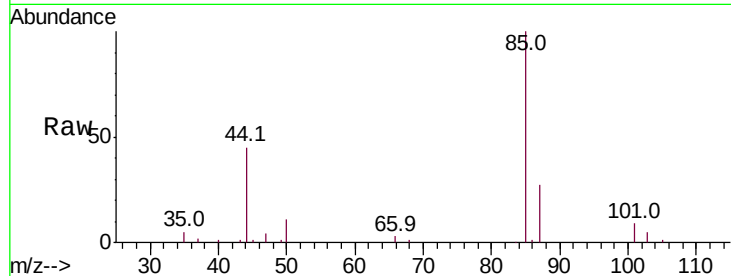
VSTD02598

Tot Ion: 85 Resp: 44823

Ion Ratio Lower Upper

85 100

87 24.6 23.2 43.0



#3

Chloromethane

Concen: 24.118 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW007312.D

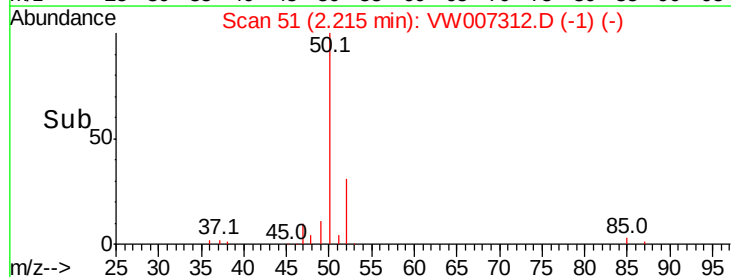
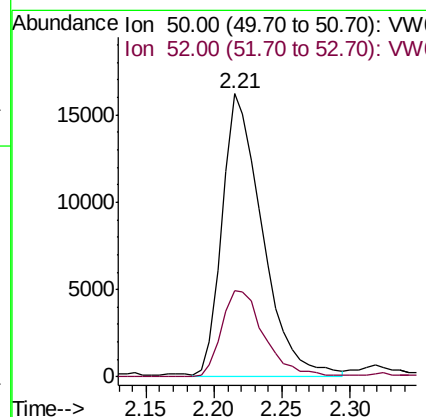
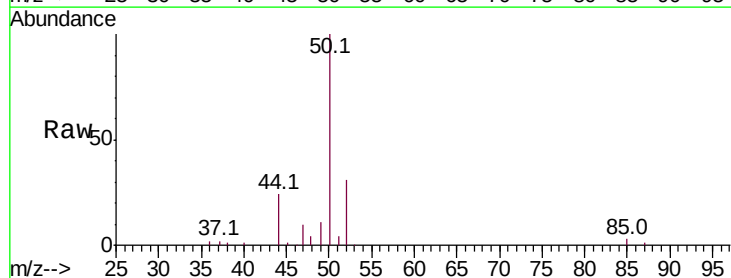
Acq: 07 Dec 2018 17:10

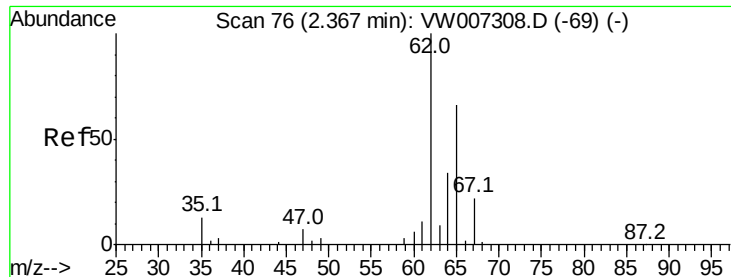
Tgt Ion: 50 Resp: 33210

Ion Ratio Lower Upper

50 100

52 30.5 22.2 41.2





#5

Vinyl chloride

Concen: 27.747 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

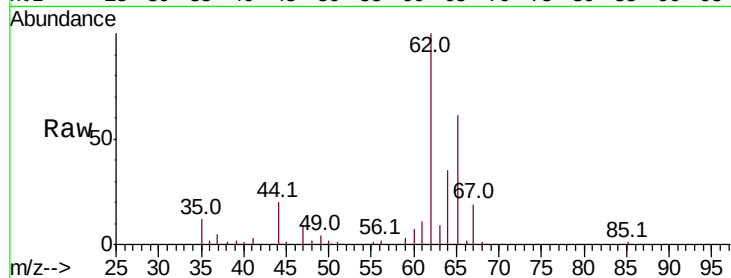
VSTD02598

Tot Ion: 62 Resp: 36045

Ion Ratio Lower Upper

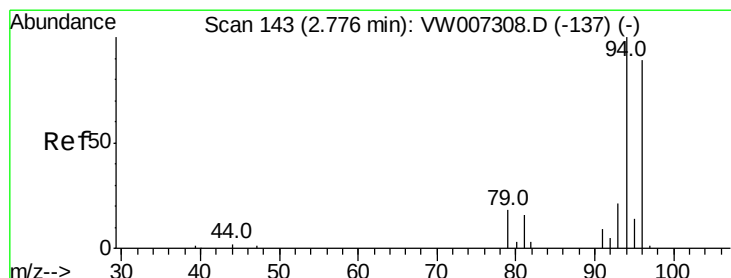
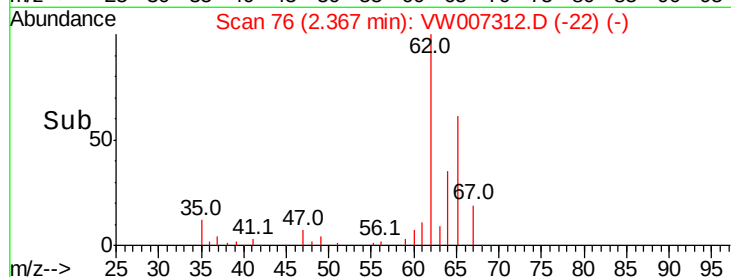
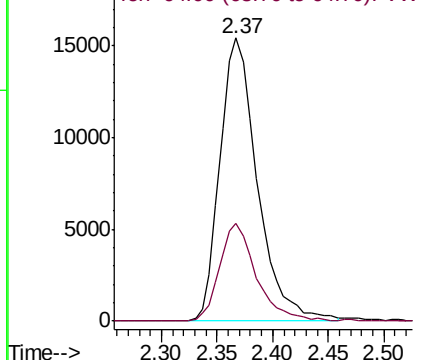
62 100

64 34.7 23.9 44.3



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW



#6

Bromomethane

Concen: 24.774 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW007312.D

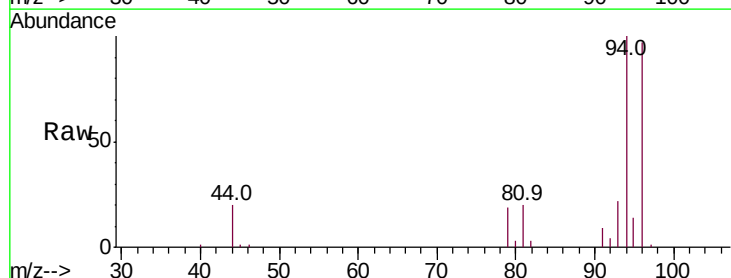
Acq: 07 Dec 2018 17:10

Tgt Ion: 94 Resp: 22260

Ion Ratio Lower Upper

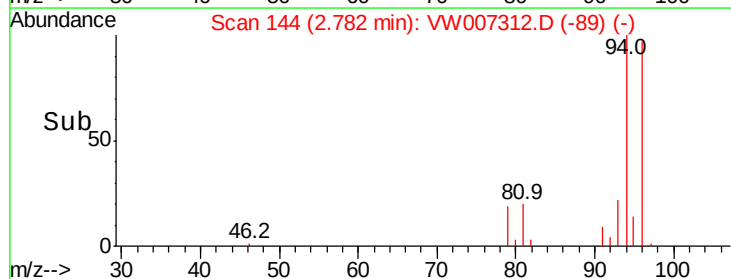
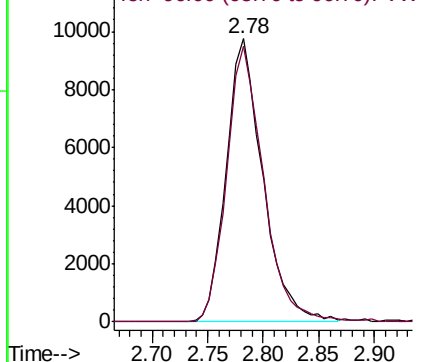
94 100

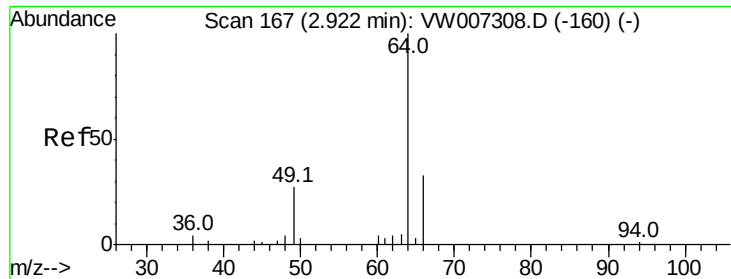
96 98.2 9.6 181.8



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW





#8

Chloroethane

Concen: 24.948 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.01 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

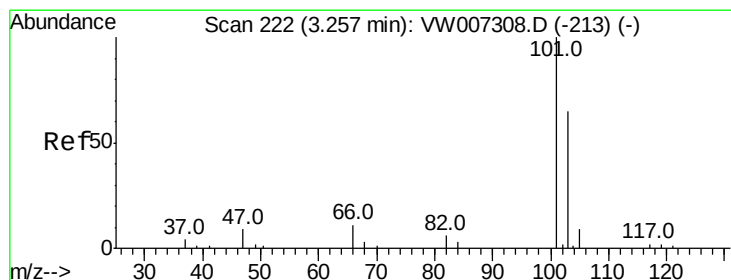
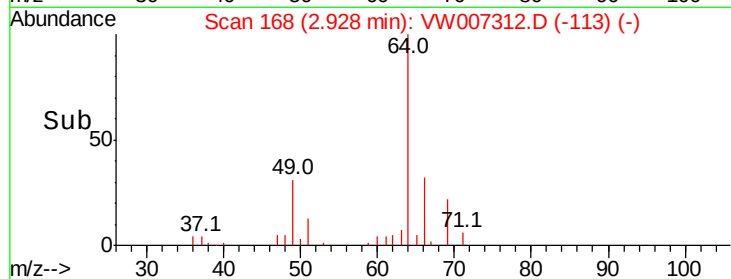
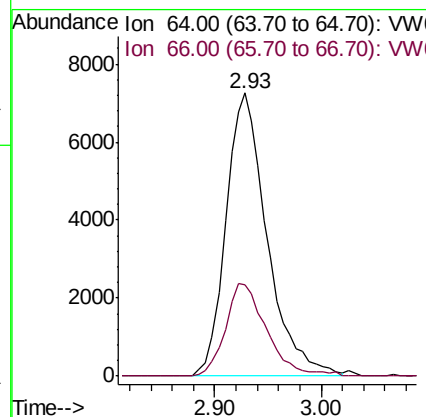
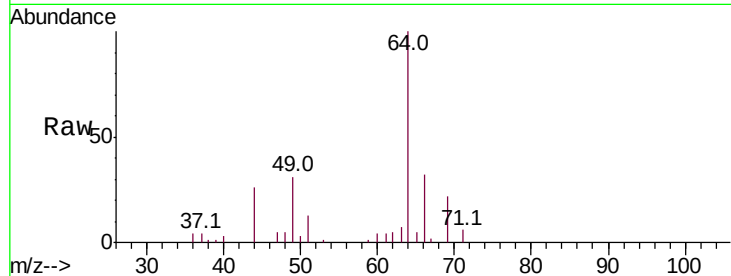
VSTD02598

Tot Ion: 64 Resp: 19509

Ion Ratio Lower Upper

64 100

66 32.3 23.2 43.2



#9

Trichlorofluoromethane

Concen: 24.115 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.00 min

Lab File: VW007312.D

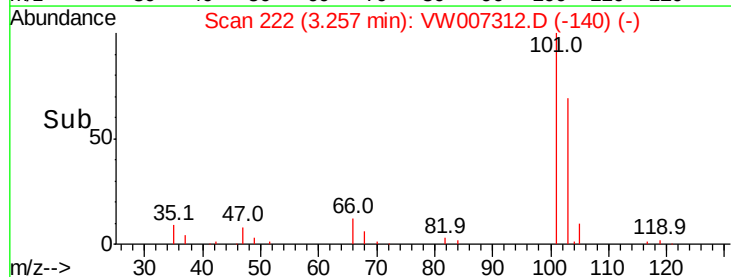
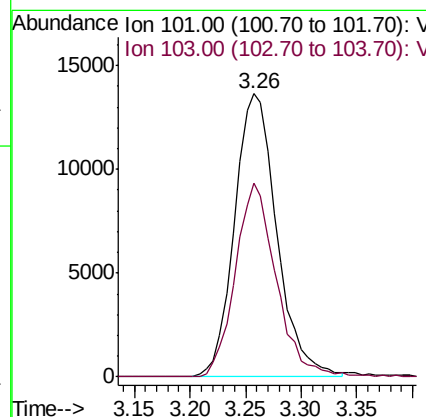
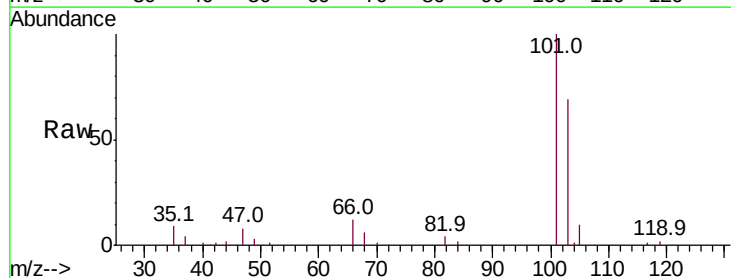
Acq: 07 Dec 2018 17:10

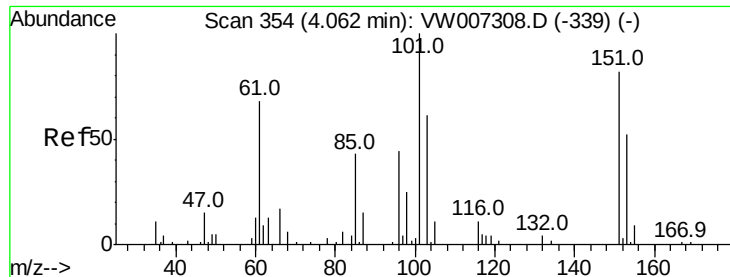
Tgt Ion: 101 Resp: 35961

Ion Ratio Lower Upper

101 100

103 66.0 44.7 82.9





#11

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

Concen: 24.213 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02598

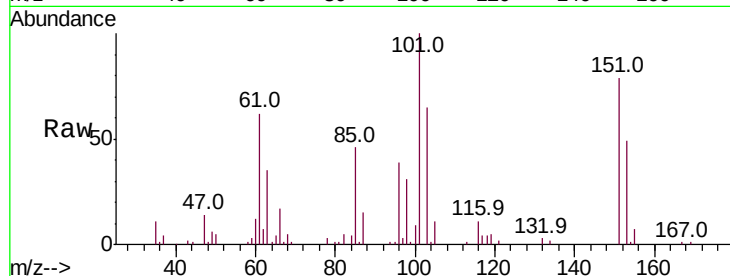
Tot Ion:101 Resp: 48133

Ion Ratio Lower Upper

101 100

85 41.5 35.4 53.2

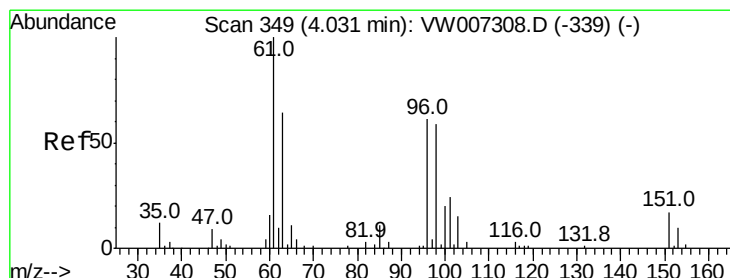
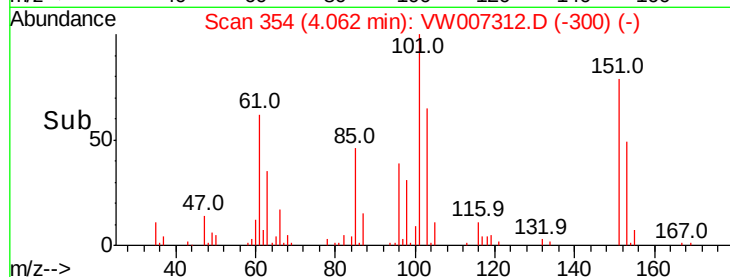
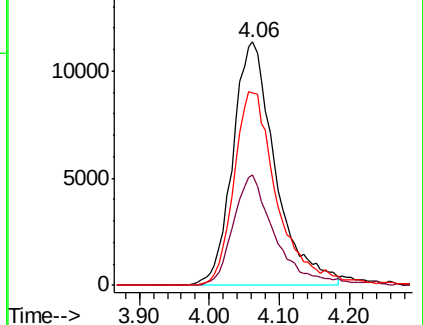
151 77.6 64.8 97.2



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: 24.391 ug/L

RT: 4.03 min Scan# 349

Delta R.T. 0.00 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

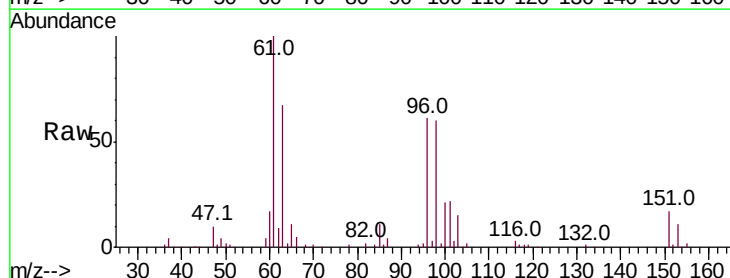
Tgt Ion: 96 Resp: 45116

Ion Ratio Lower Upper

96 100

61 162.6 117.2 217.8

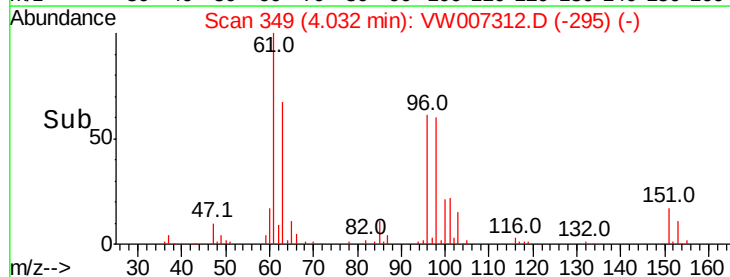
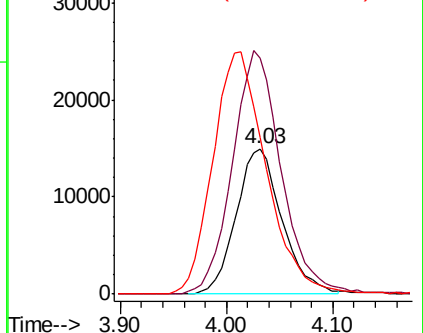
63 108.2 89.7 166.7

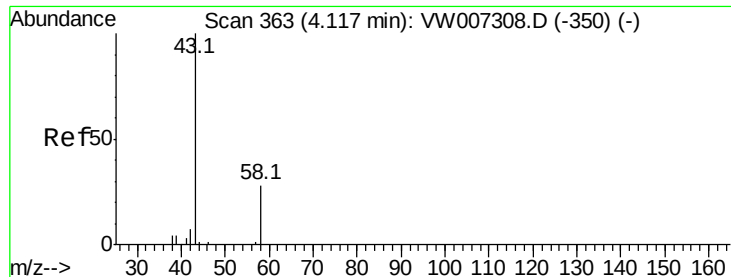


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 31.219 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

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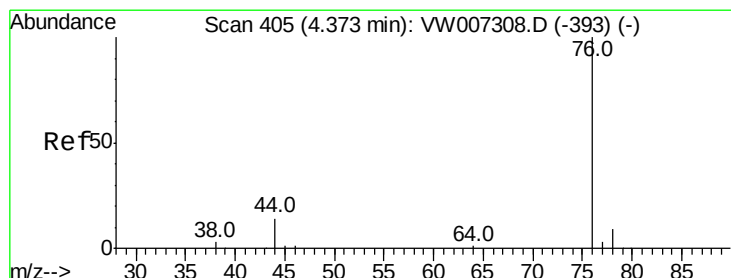
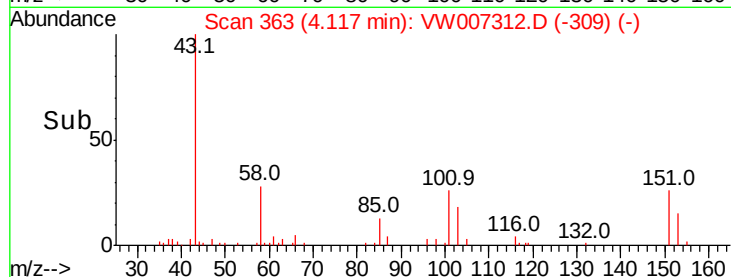
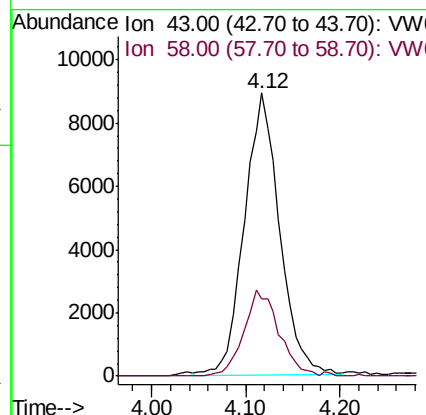
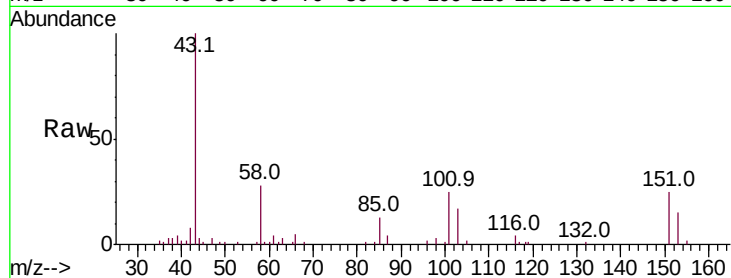
VSTD02598

Tot Ion: 43 Resp: 23475

Ion Ratio Lower Upper

43 100

58 30.1 0.0 59.2



#14

Carbon disulfide

Concen: 25.500 ug/L

RT: 4.37 min Scan# 405

Delta R.T. 0.00 min

Lab File: VW007312.D

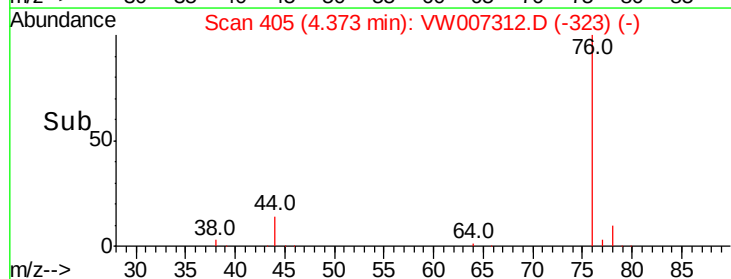
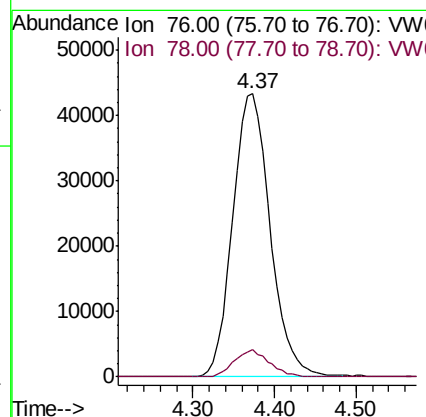
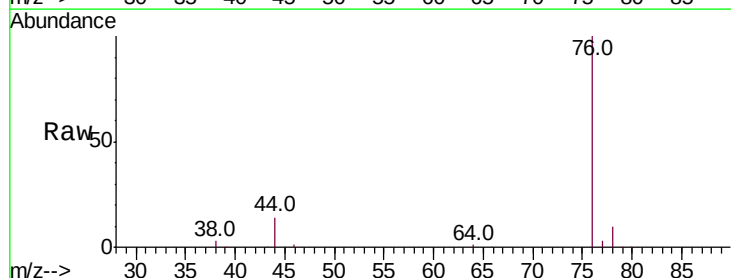
Acq: 07 Dec 2018 17:10

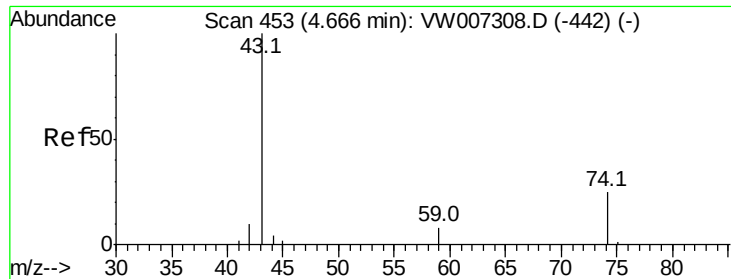
Tgt Ion: 76 Resp: 137717

Ion Ratio Lower Upper

76 100

78 9.7 7.3 10.9





#15

Methvl Acetate

Concen: 17.686 ug/L

RT: 4.66 min Scan# 452

Delta R.T. -0.01 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

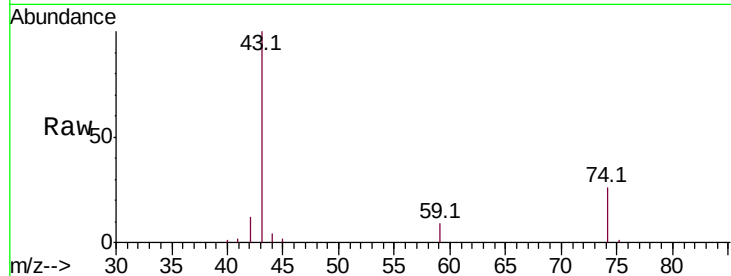
VSTD02598

Tot Ion: 43 Resp: 19942

Ion Ratio Lower Upper

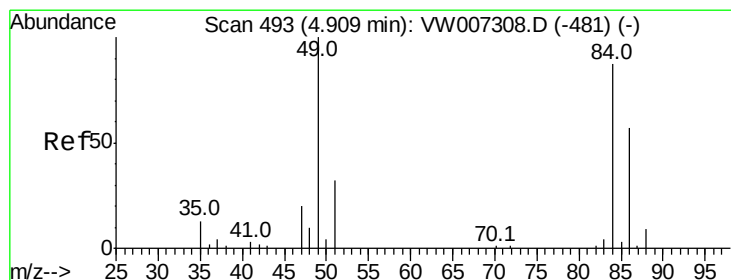
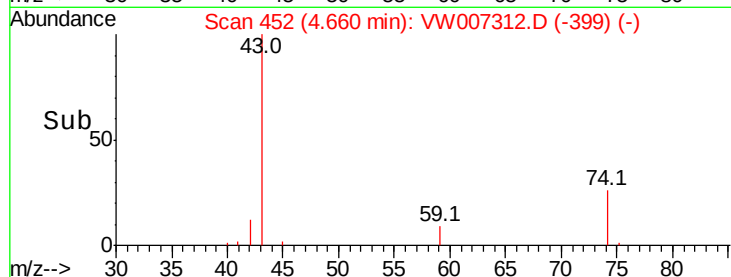
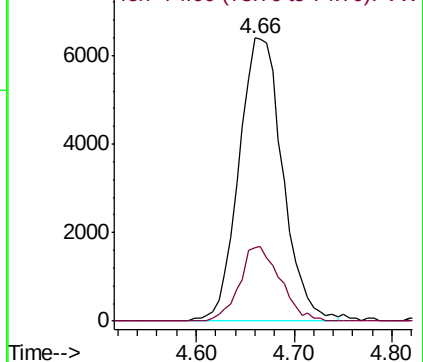
43 100

74 24.5 0.1 0.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW



#16

Methylene chloride

Concen: 18.737 ug/L

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

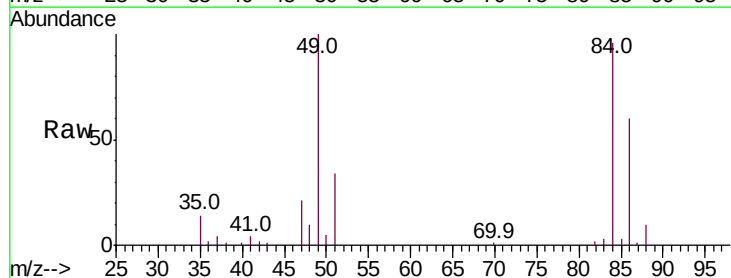
Tgt Ion: 84 Resp: 47684

Ion Ratio Lower Upper

84 100

49 104.6 80.8 150.2

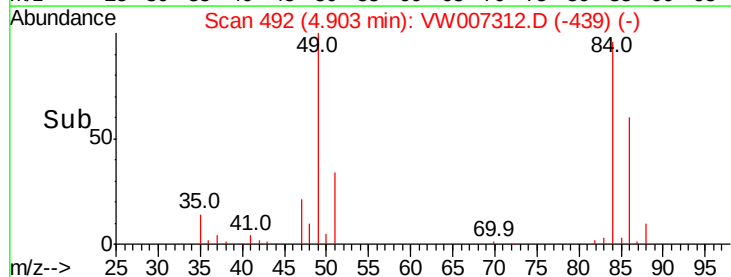
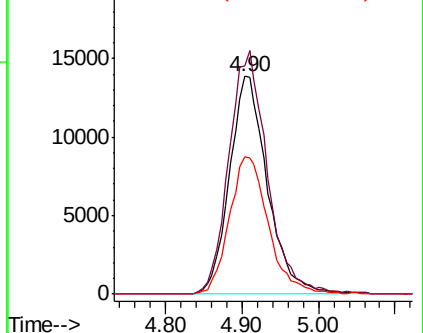
86 63.1 45.8 85.2

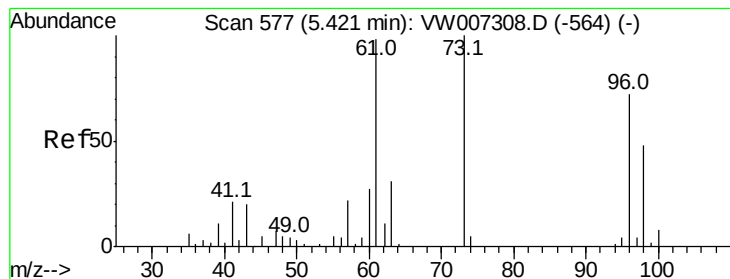


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW



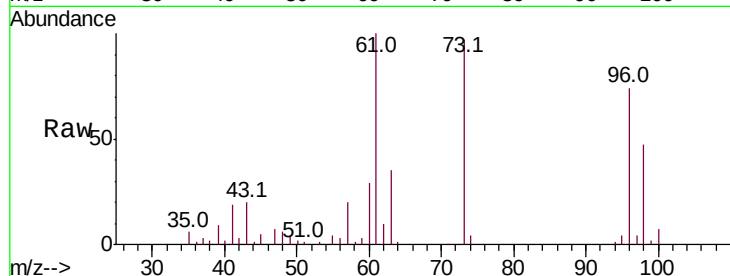


#17

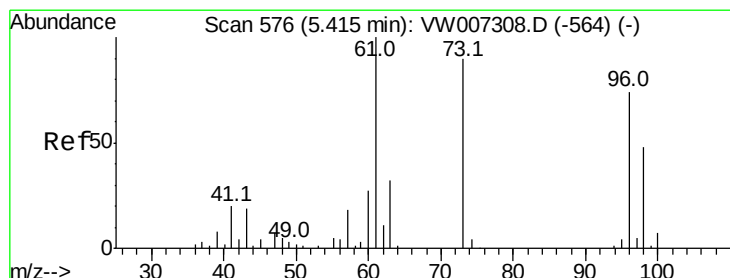
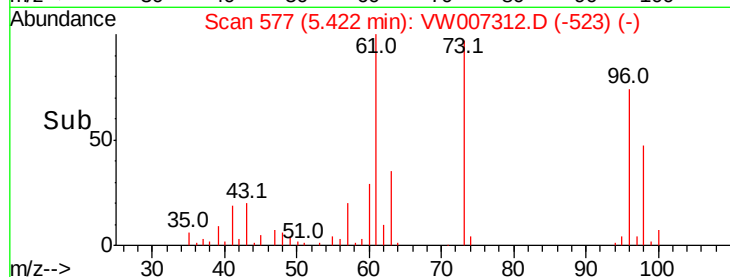
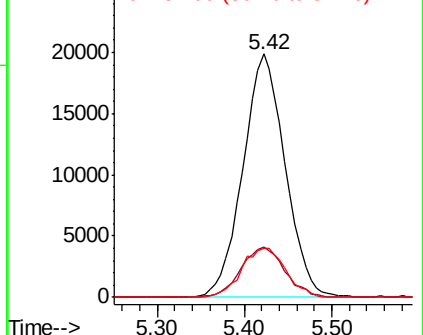
Methyl tert-butyl Ether
 Concen: 22.168 ug/L
 RT: 5.42 min Scan# 577
 Delta R.T. 0.00 min
 Lab File: VW007312.D
 Acq: 07 Dec 2018 17:10

Instrument :
 MSVOA_W
 ClientSampleID :
 VSTD02598

Tot Ion: 73 Resp: 66675
 Ion Ratio Lower Upper
 73 100
 43 21.5 17.3 25.9
 57 21.4 17.0 25.6



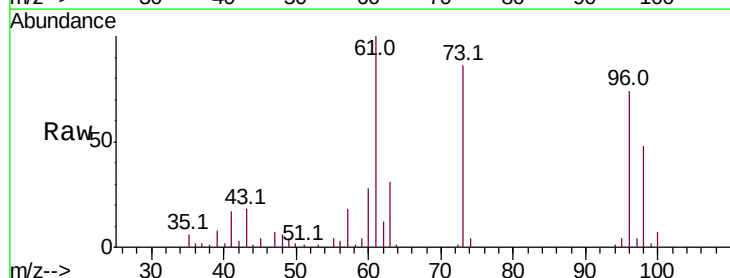
Abundance Ion 73.00 (72.70 to 73.70): VW
 Ion 43.00 (42.70 to 43.70): VW
 Ion 57.00 (56.70 to 57.70): VW



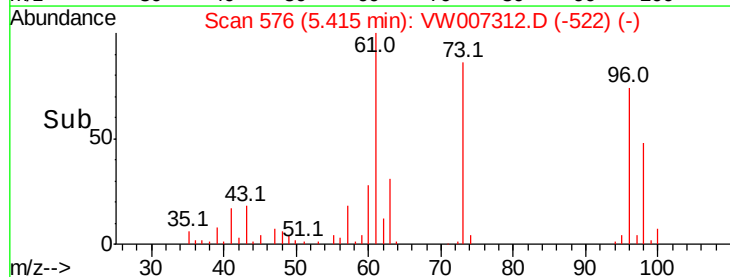
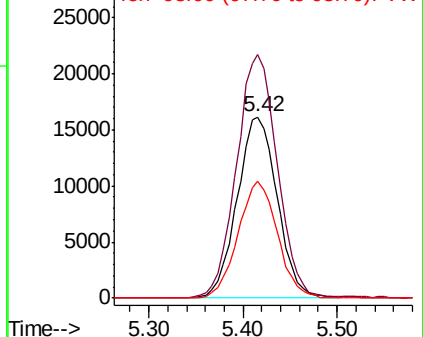
#18

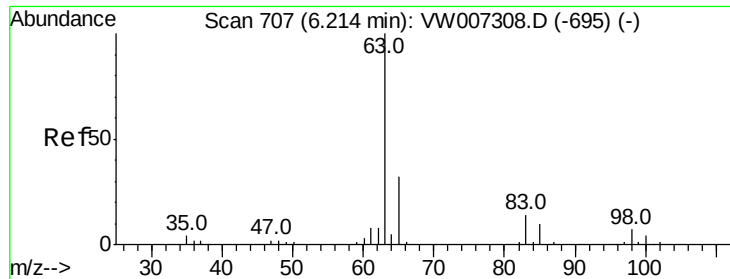
trans-1,2-Dichloroethene
 Concen: 24.282 ug/L
 RT: 5.42 min Scan# 576
 Delta R.T. 0.00 min
 Lab File: VW007312.D
 Acq: 07 Dec 2018 17:10

Tgt Ion: 96 Resp: 48185
 Ion Ratio Lower Upper
 96 100
 61 134.3 94.6 175.8
 98 64.4 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

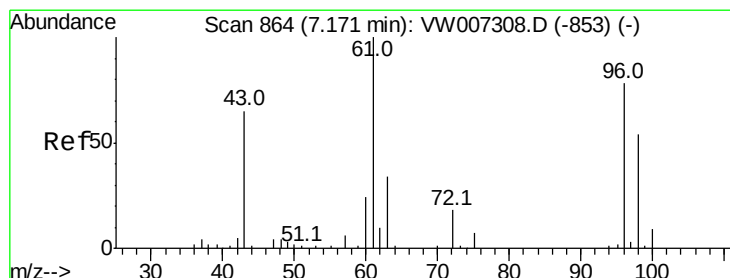
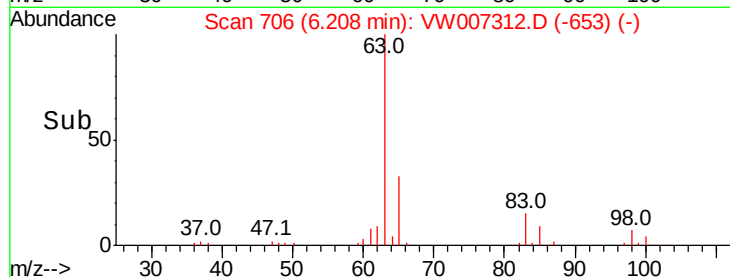
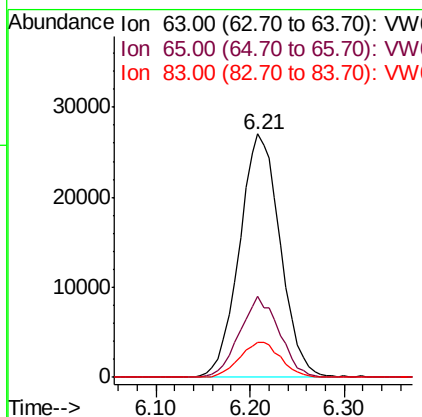
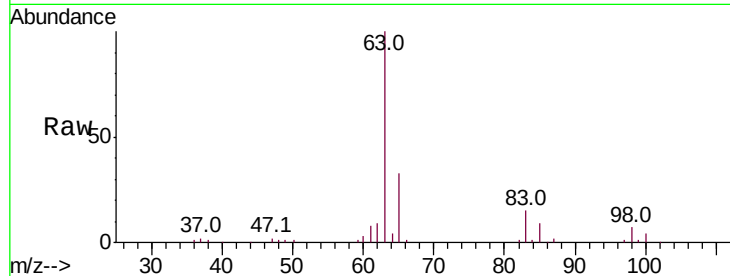




#19
 1,1-Dichloroethane
 Concen: 24.192 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. -0.01 min
 Lab File: VW007312.D
 Acq: 07 Dec 2018 17:10

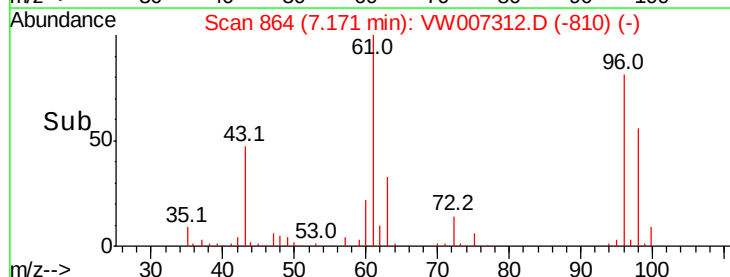
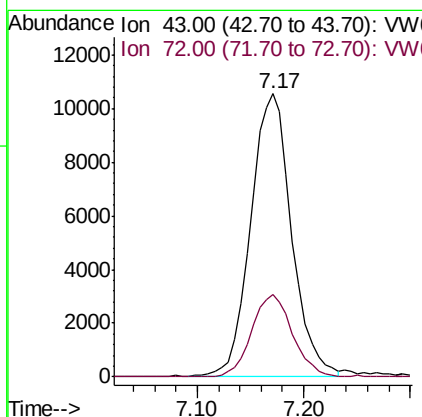
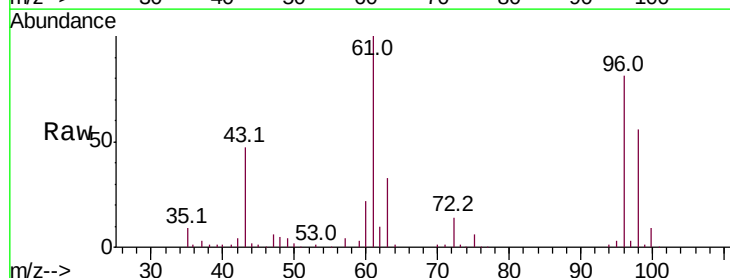
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02598

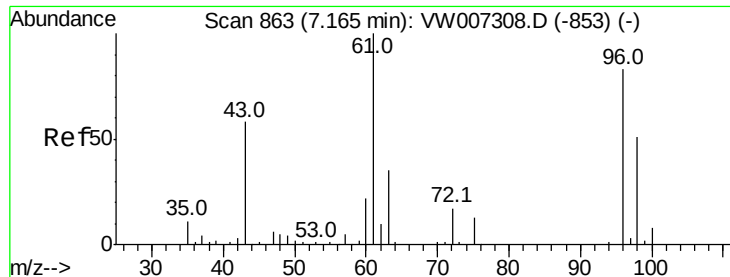
Tot Ion: 63 Resp: 81829
 Ion Ratio Lower Upper
 63 100
 65 33.3 22.1 41.1
 83 14.5 9.8 18.2



#21
 2-Butanone
 Concen: 35.130 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VW007312.D
 Acq: 07 Dec 2018 17:10

Tgt Ion: 43 Resp: 28392
 Ion Ratio Lower Upper
 43 100
 72 28.9 14.7 44.1

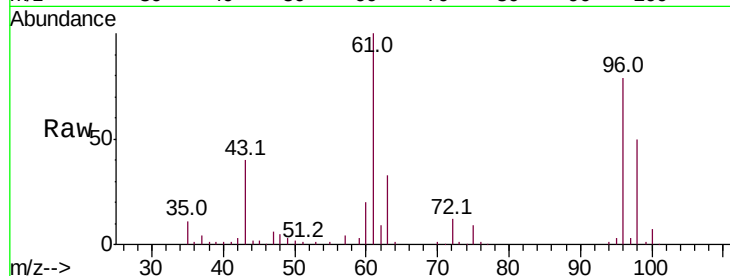




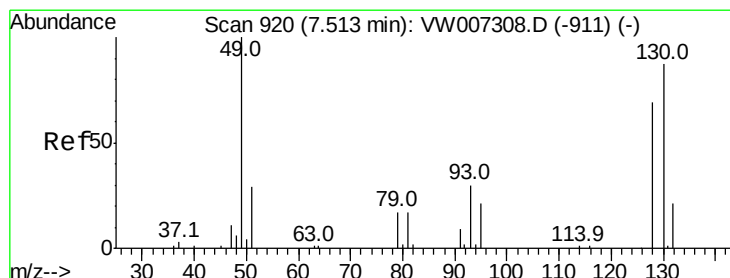
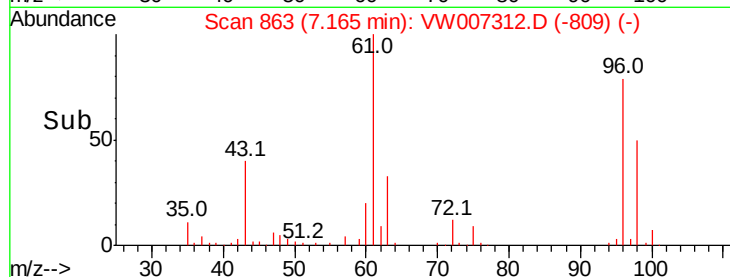
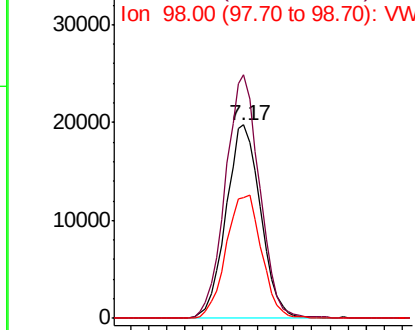
#22
 cis-1,2-Dichloroethene
 Concen: 24.017 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW007312.D
 Acq: 07 Dec 2018 17:10

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02598

Tot Ion: 96 Resp: 52445
 Ion Ratio Lower Upper
 96 100
 61 125.9 84.6 157.2
 98 62.7 42.9 79.7

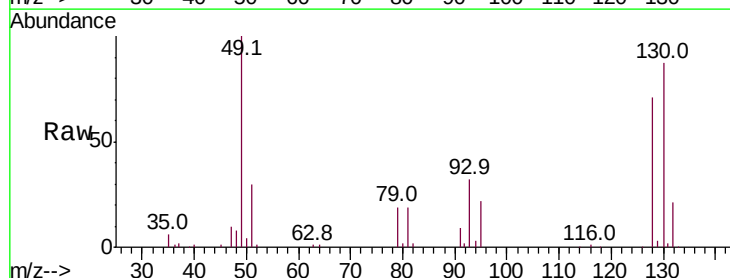


Abundance Ion 96.00 (95.70 to 96.70): VW
 Ion 61.00 (60.70 to 61.70): VW
 Ion 98.00 (97.70 to 98.70): VW

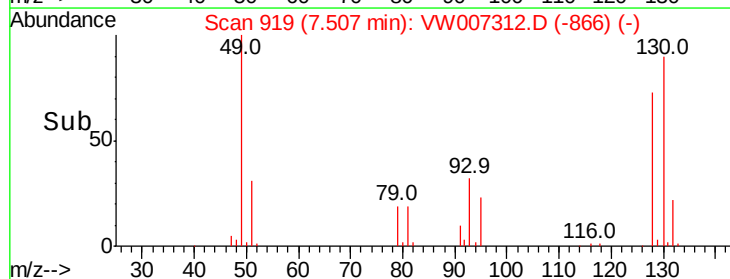
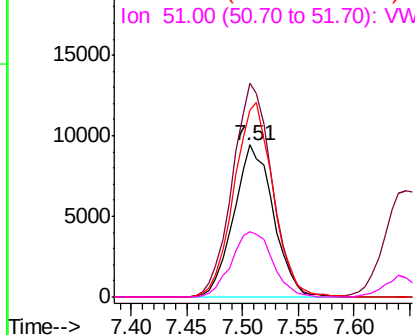


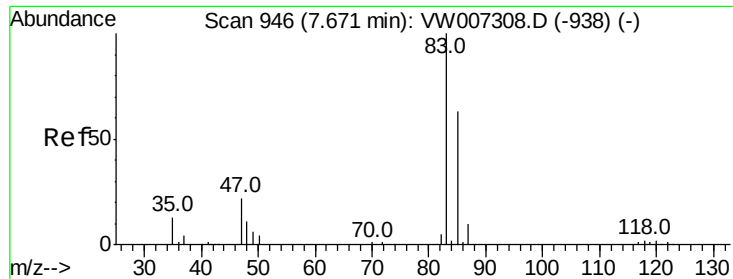
#23
 Bromochloromethane
 Concen: 23.390 ug/L
 RT: 7.51 min Scan# 919
 Delta R.T. -0.01 min
 Lab File: VW007312.D
 Acq: 07 Dec 2018 17:10

Tgt Ion: 128 Resp: 23284
 Ion Ratio Lower Upper
 128 100
 49 140.8 102.3 190.1
 130 123.0 88.0 163.4
 51 42.9 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

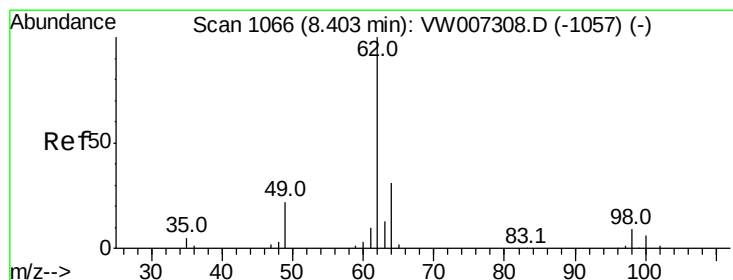
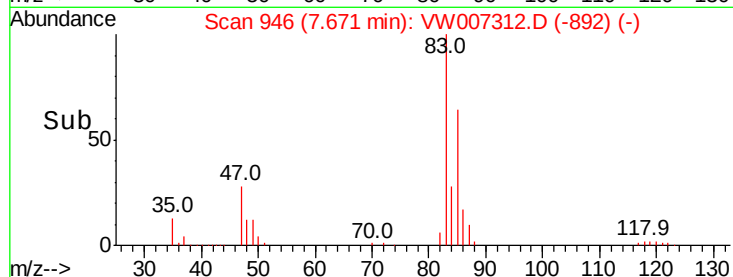
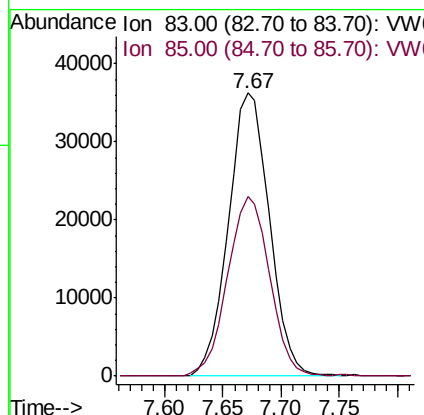
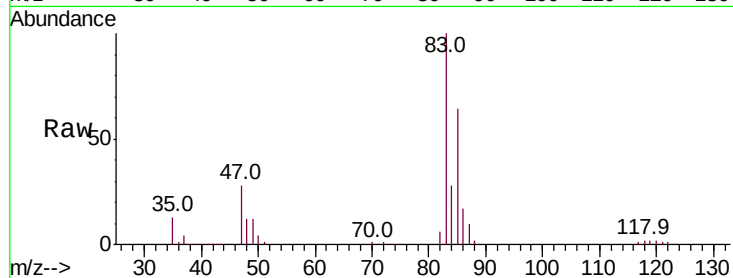




#25
Chloroform
Concen: 24.336 ug/L
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW007312.D
Acq: 07 Dec 2018 17:10

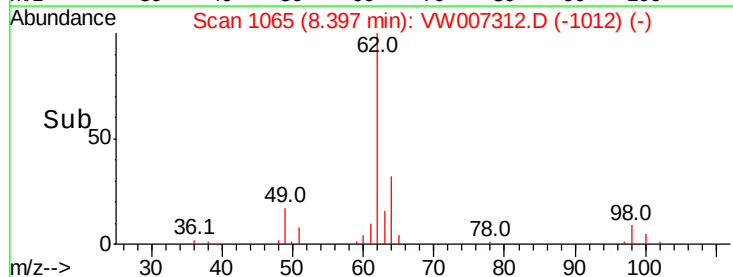
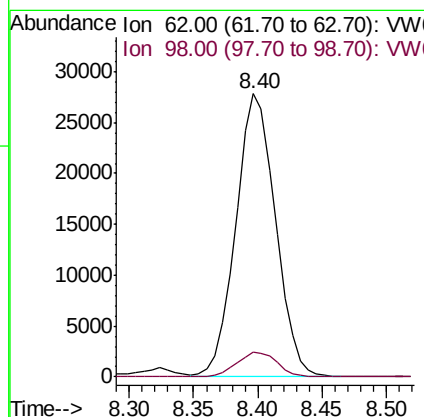
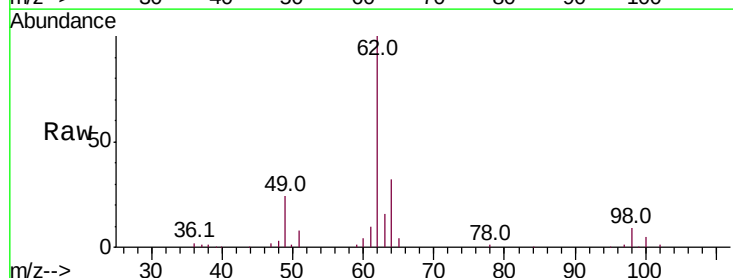
Instrument :
MSVOA_W
ClientSampleId :
VSTD02598

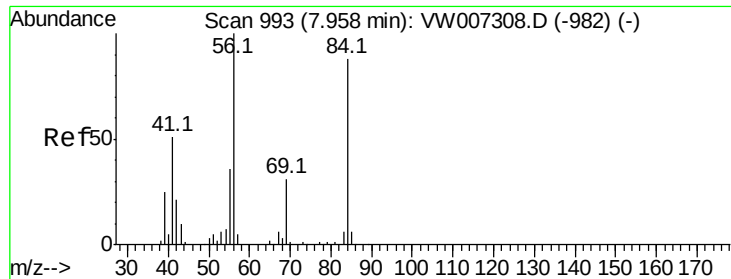
Tot Ion: 83 Resp: 89069
Ion Ratio Lower Upper
83 100
85 65.1 46.0 85.4



#27
1,2-Dichloroethane
Concen: 22.730 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. -0.01 min
Lab File: VW007312.D
Acq: 07 Dec 2018 17:10

Tgt Ion: 62 Resp: 59466
Ion Ratio Lower Upper
62 100
98 8.9 6.9 10.3

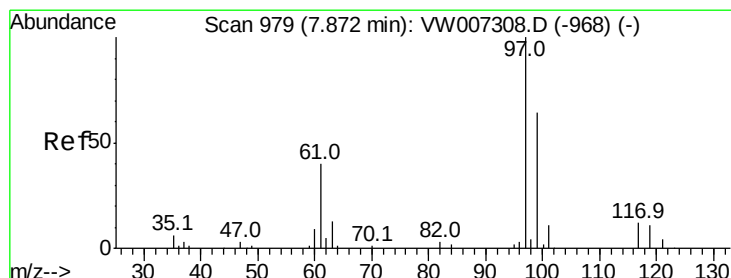
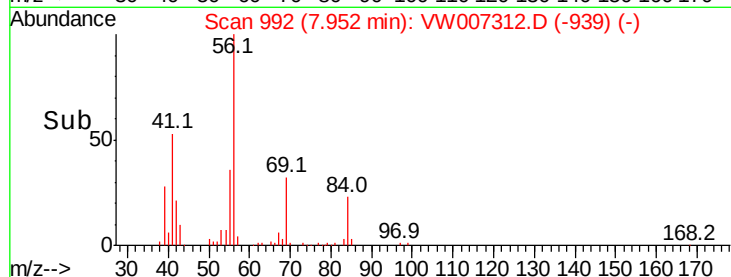
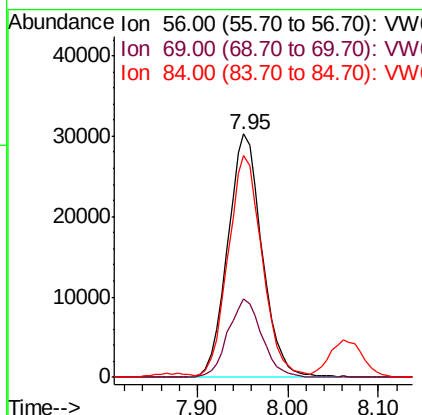
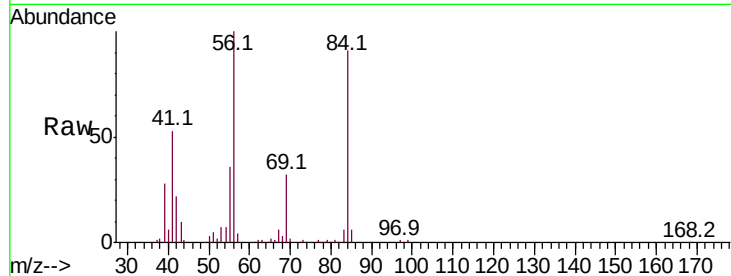




#30
Cyclohexane
Concen: 24.579 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW007312.D
Acq: 07 Dec 2018 17:10

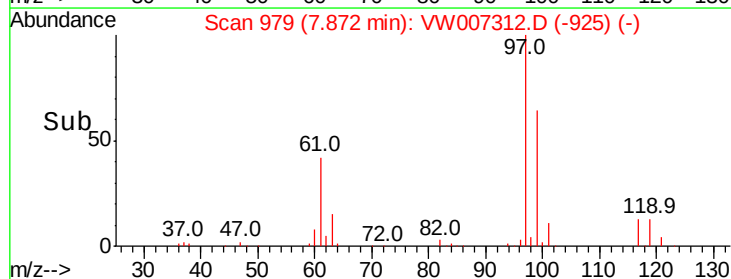
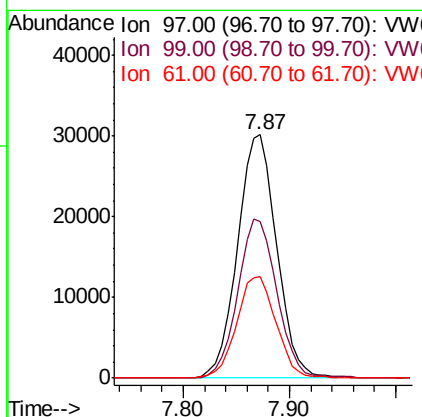
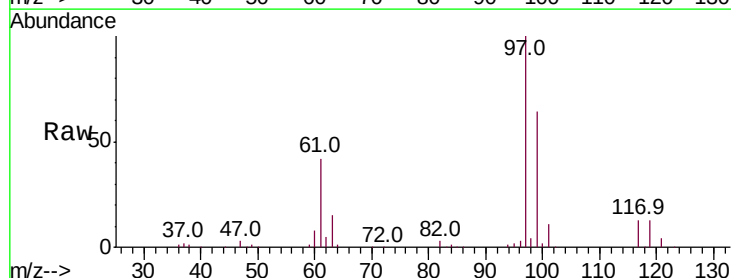
Instrument :
MSVOA_W
ClientSampleId :
VSTD02598

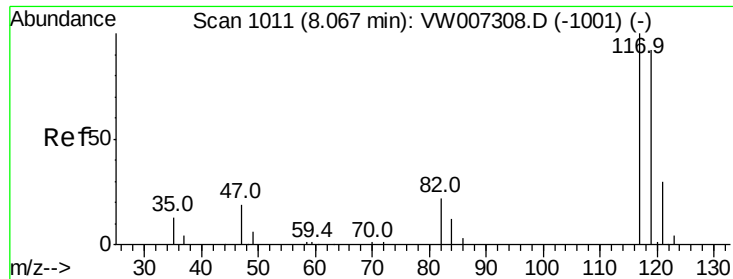
Tot Ion: 56 Resp: 79522
Ion Ratio Lower Upper
56 100
69 32.0 26.0 39.0
84 90.9 73.6 110.4



#31
1,1,1-Trichloroethane
Concen: 24.513 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.00 min
Lab File: VW007312.D
Acq: 07 Dec 2018 17:10

Tgt Ion: 97 Resp: 77809
Ion Ratio Lower Upper
97 100
99 65.2 51.3 76.9
61 42.2 33.2 49.8





#32

Carbon tetrachloride

Concen: 24.426 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

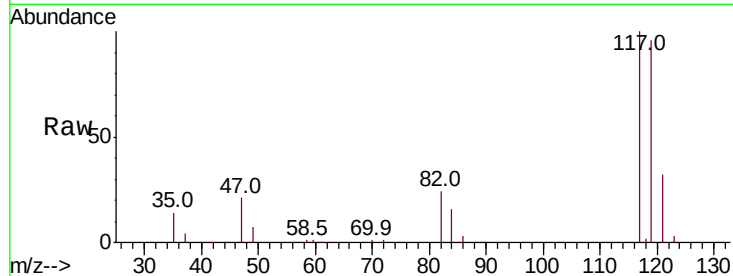
VSTD02598

Tot Ion:117 Resp: 74924

Ion Ratio Lower Upper

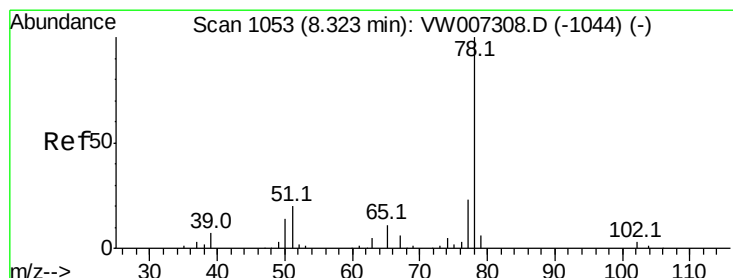
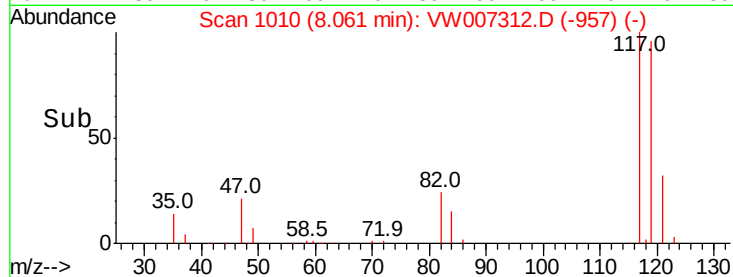
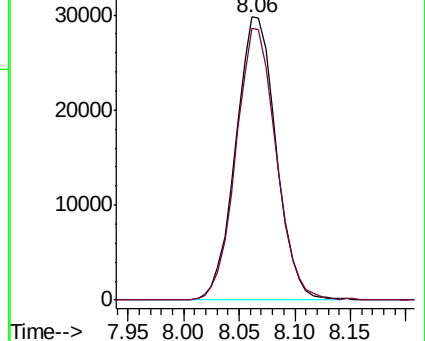
117 100

119 95.5 75.3 112.9



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.490 ug/L

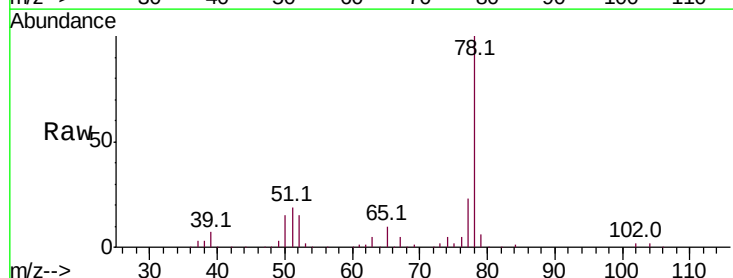
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

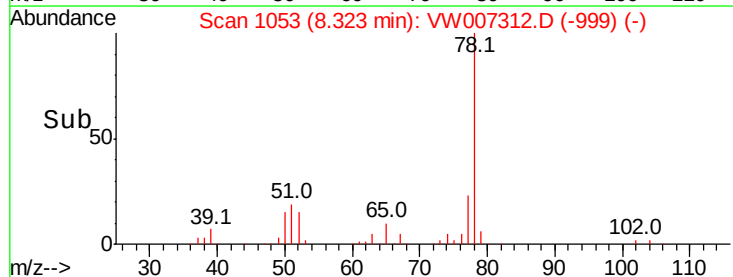
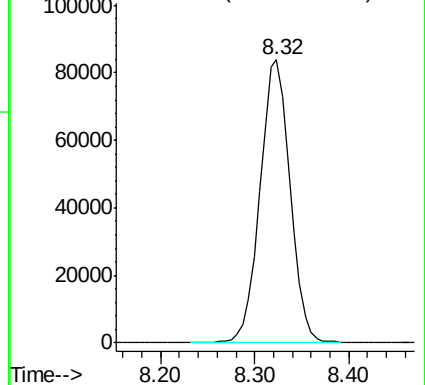
Lab File: VW007312.D

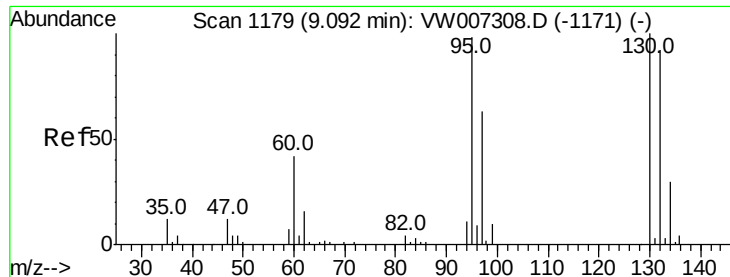
Acq: 07 Dec 2018 17:10

Tgt Ion: 78 Resp: 189314



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 23.961 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02598

Tot Ion: 95 Resp: 53114

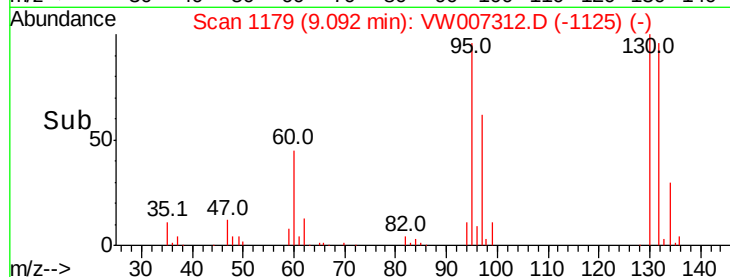
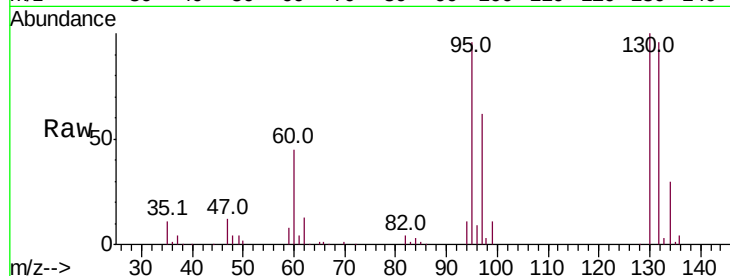
Ion Ratio Lower Upper

95 100

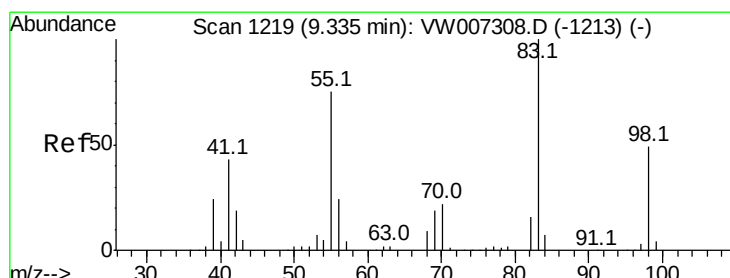
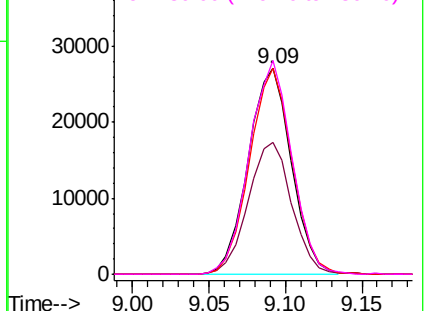
97 64.6 45.8 85.0

132 98.7 68.0 126.4

130 102.7 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: 24.180 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

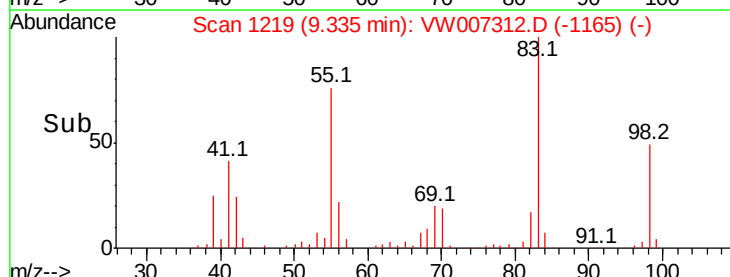
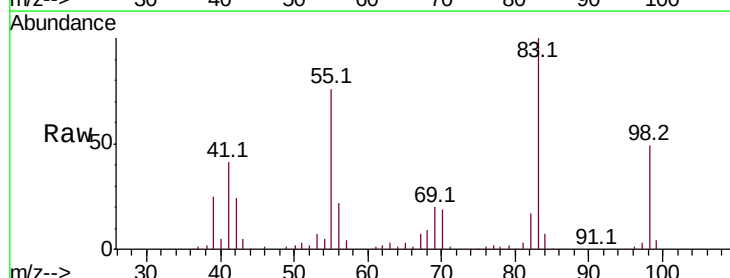
Tgt Ion: 83 Resp: 92529

Ion Ratio Lower Upper

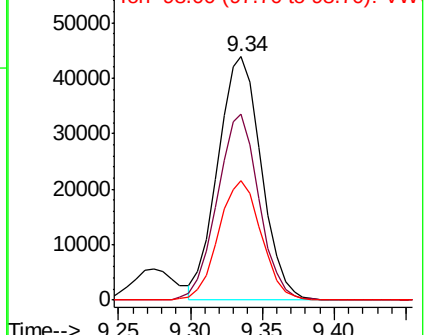
83 100

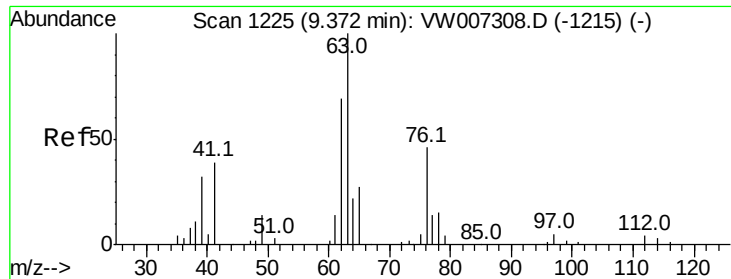
55 73.5 59.4 89.2

98 48.3 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

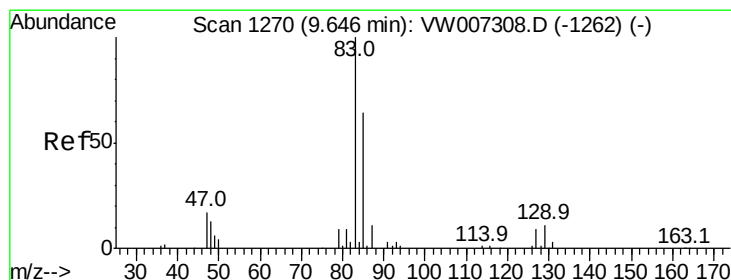
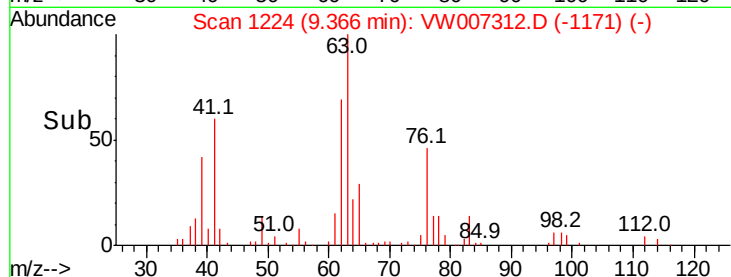
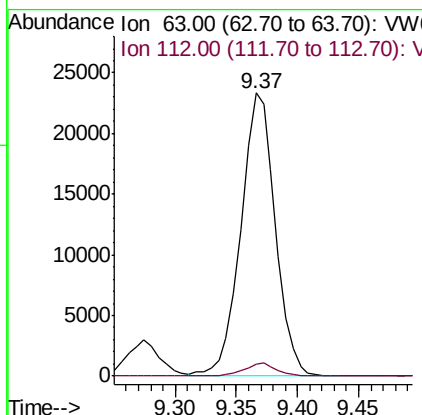
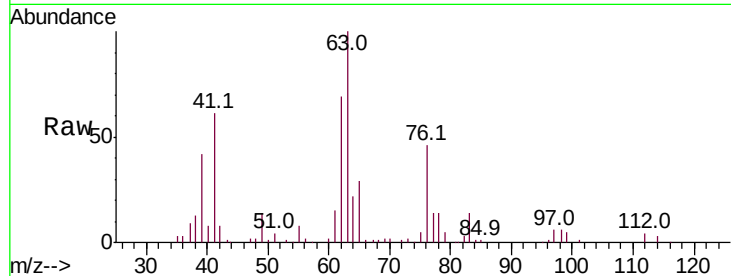




#40
 1,2-Dichloropropane
 Concen: 24.114 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.01 min
 Lab File: VW007312.D
 Acq: 07 Dec 2018 17:10

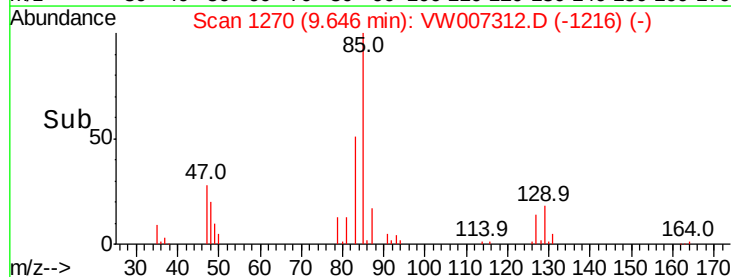
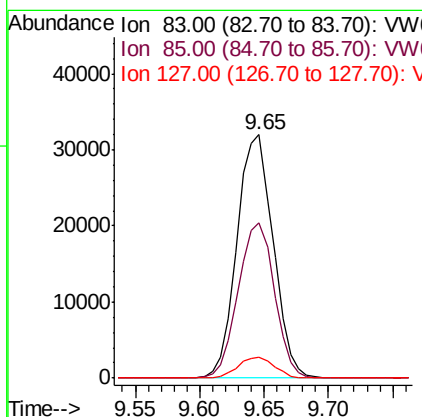
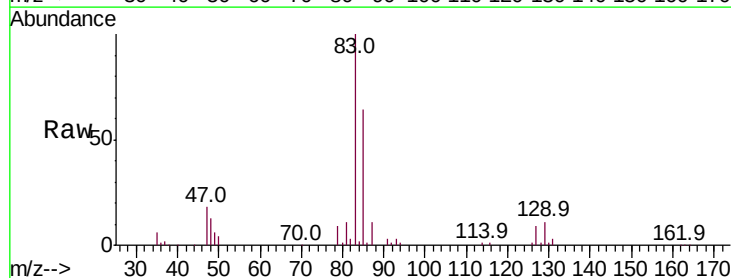
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02598

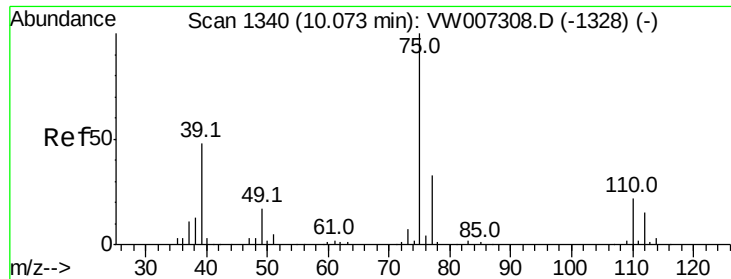
Tot Ion: 63 Resp: 45598
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.6 5.4



#41
 Bromodichloromethane
 Concen: 22.966 ug/L
 RT: 9.65 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VW007312.D
 Acq: 07 Dec 2018 17:10

Tgt Ion: 83 Resp: 62355
 Ion Ratio Lower Upper
 83 100
 85 63.6 44.9 83.5
 127 8.7 7.4 11.2

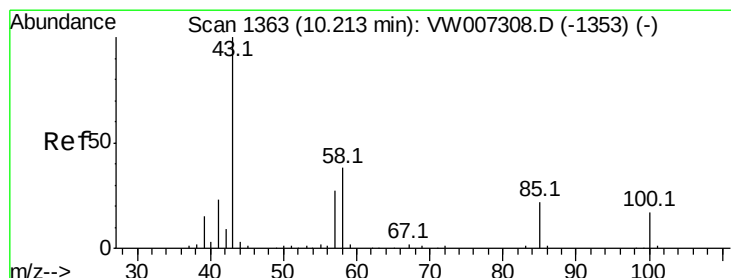
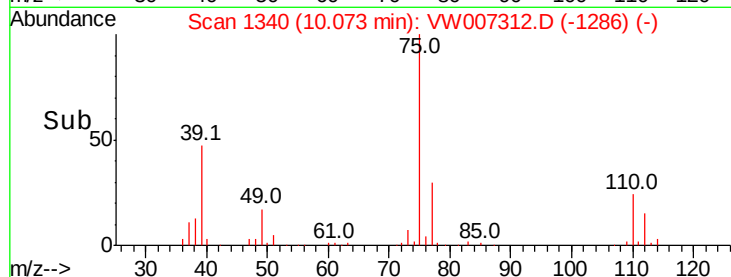
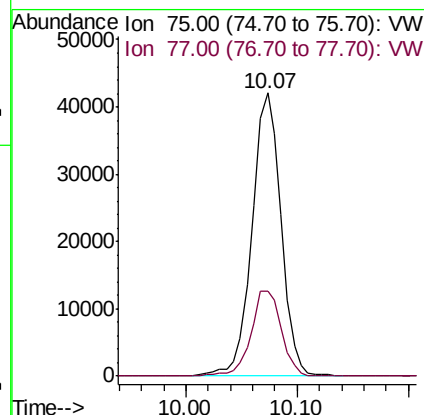
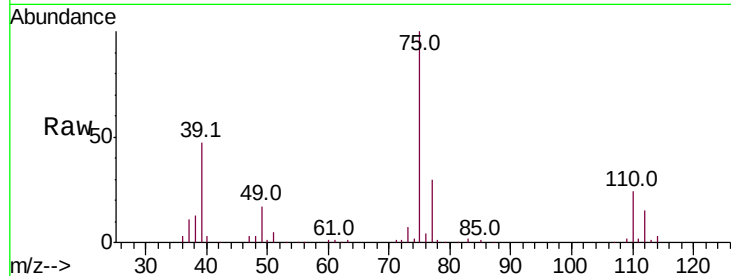




#42
 cis-1,3-Dichloropropene
 Concen: 24.095 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VW007312.D
 Acq: 07 Dec 2018 17:10

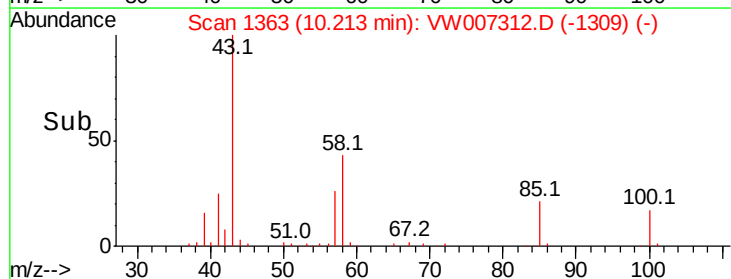
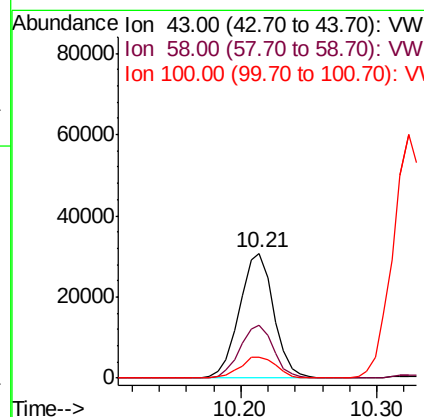
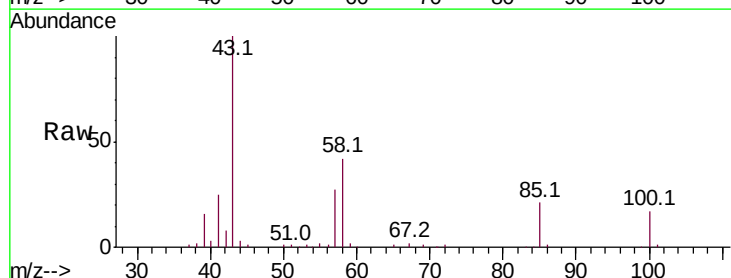
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02598

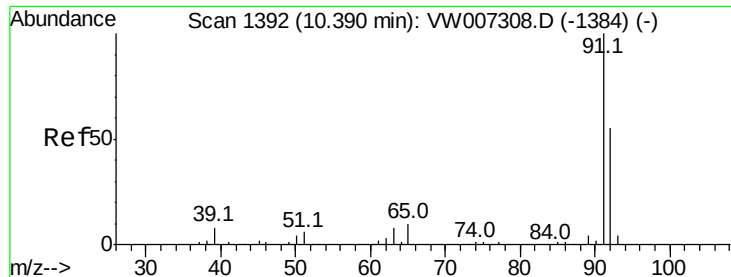
Tot Ion: 75 Resp: 76516
 Ion Ratio Lower Upper
 75 100
 77 29.9 23.0 42.6



#43
 4-Methyl-2-pentanone
 Concen: 36.226 ug/L
 RT: 10.21 min Scan# 1363
 Delta R.T. 0.00 min
 Lab File: VW007312.D
 Acq: 07 Dec 2018 17:10

Tgt Ion: 43 Resp: 54219
 Ion Ratio Lower Upper
 43 100
 58 41.4 32.6 48.8
 100 17.9 13.8 20.8





#44

Toluene

Concen: 24.180 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

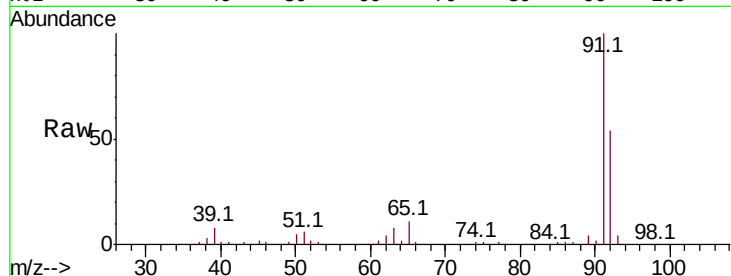
VSTD02598

Tot Ion: 91 Resp: 201472

Ion Ratio Lower Upper

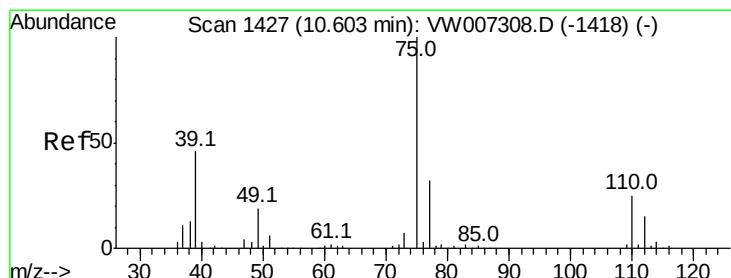
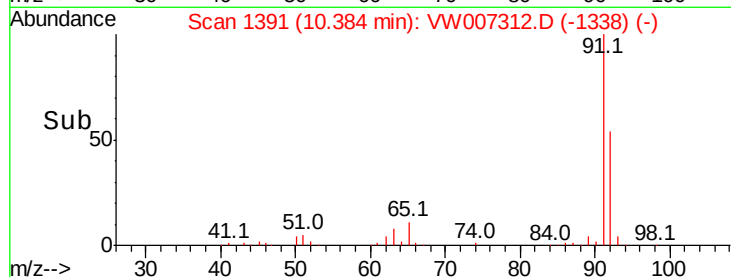
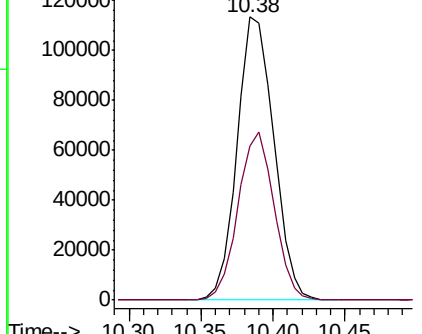
91 100

92 54.4 38.2 71.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW



#45

trans-1,3-Dichloropropene

Concen: 22.920 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.01 min

Lab File: VW007312.D

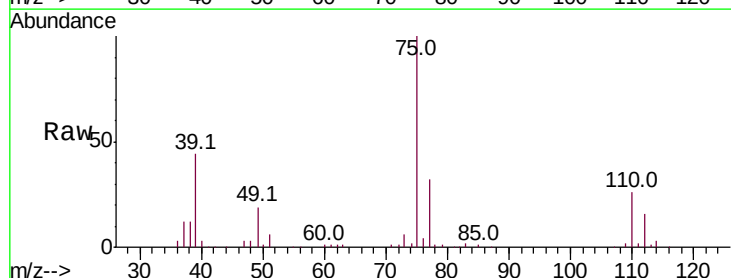
Acq: 07 Dec 2018 17:10

Tgt Ion: 75 Resp: 63918

Ion Ratio Lower Upper

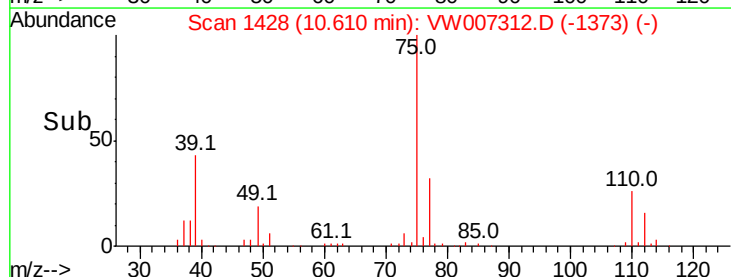
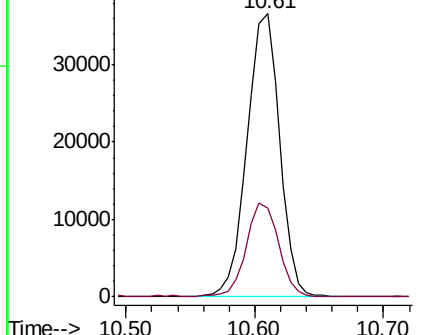
75 100

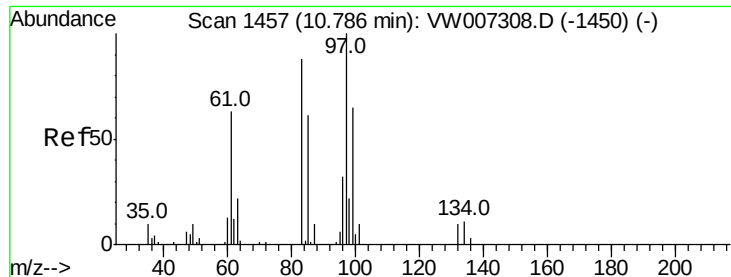
77 31.6 22.6 42.0



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW





#46

1,1,2-Trichloroethane

Concen: 21.433 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02598

Tot Ion: 97 Resp: 33371

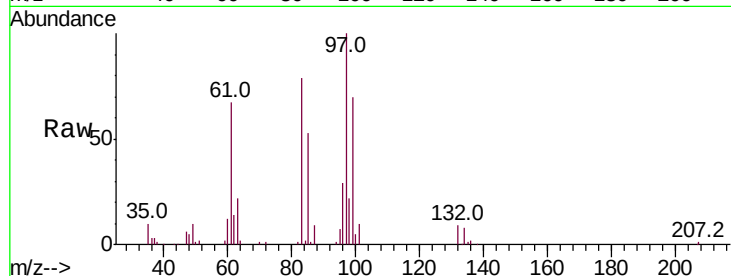
Ion Ratio Lower Upper

97 100

83 78.8 61.2 113.8

85 53.3 42.5 78.9

99 69.9 45.7 84.9



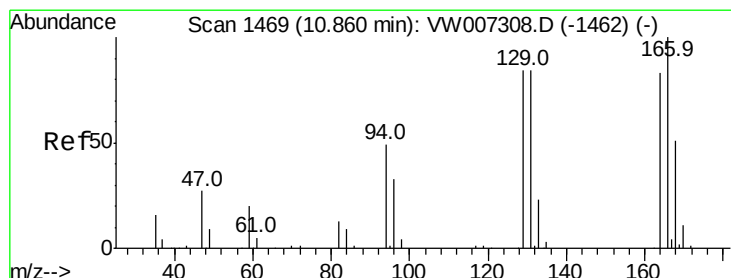
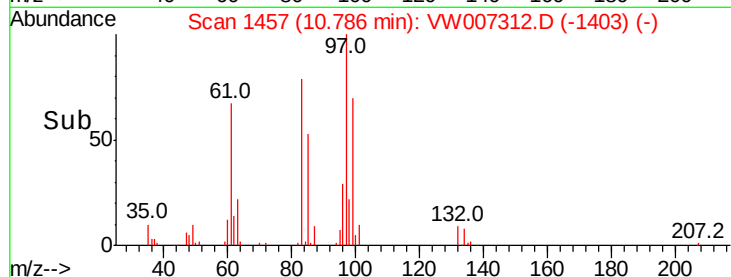
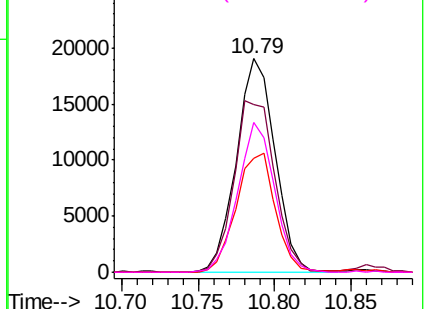
Abundance

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: 23.417 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

Tgt Ion: 164 Resp: 39210

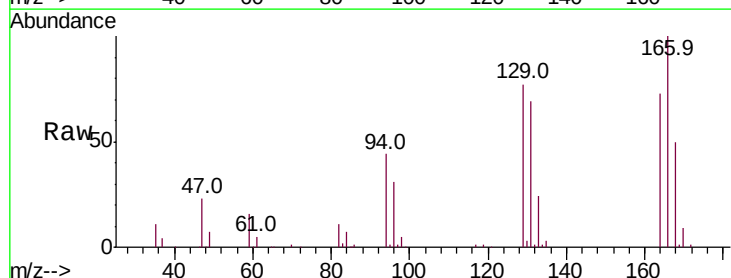
Ion Ratio Lower Upper

164 100

129 105.3 70.8 131.6

131 94.5 70.4 130.8

166 136.7 84.2 156.4



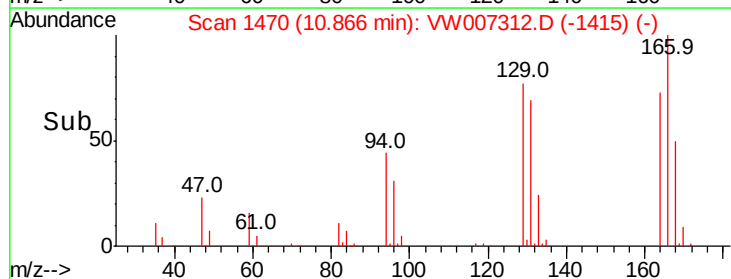
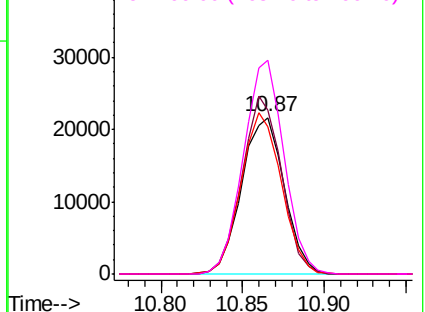
Abundance

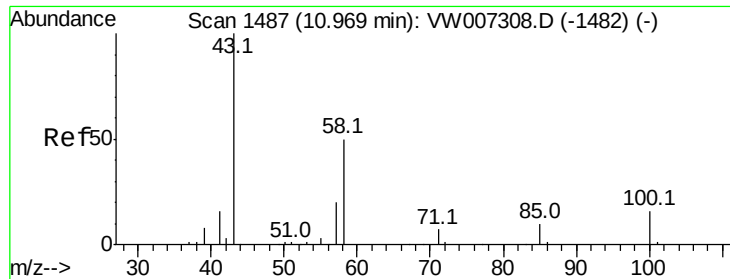
Ion 164.00 (163.70 to 164.70): V

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: 37.833 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02598

Tot Ion: 43 Resp: 39797

Ion	Ratio	Lower	Upper
43	100		
58	53.6	47.2	70.8
57	20.5	17.6	26.4
100	14.0	12.2	18.2

Abundance

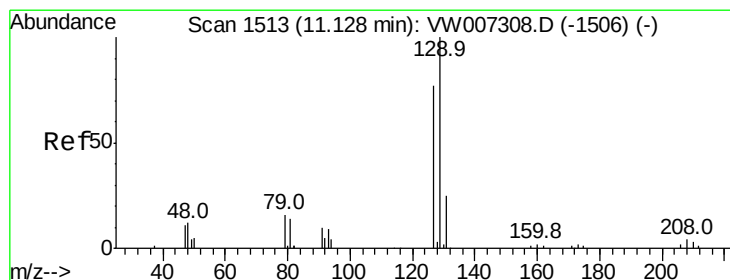
Ion 43.00 (42.70 to 43.70): VW

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

Time-->



#50

Dibromochloromethane

Concen: 22.247 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

Tgt Ion: 129 Resp: 42554

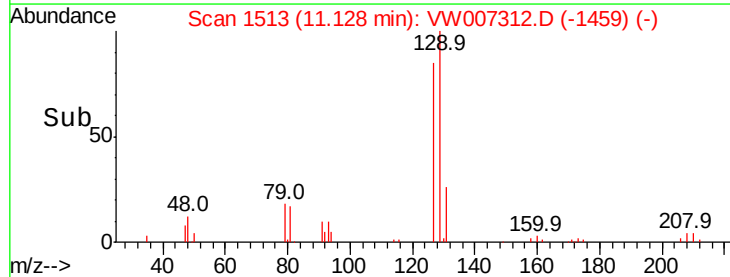
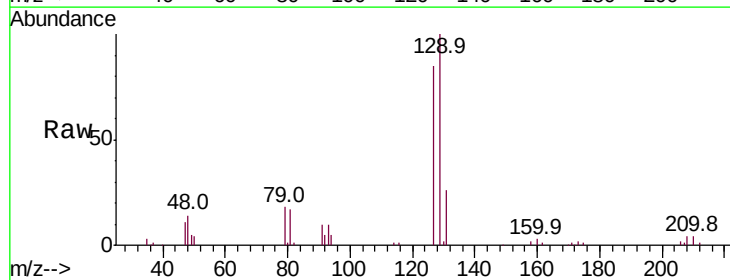
Ion	Ratio	Lower	Upper
129	100		
127	84.7	53.8	100.0

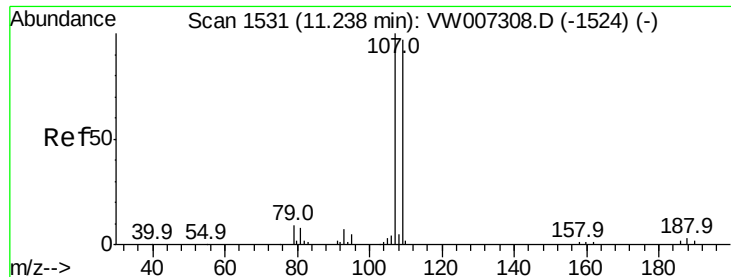
Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

Time-->

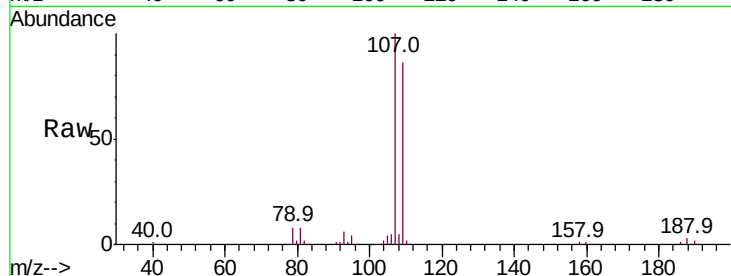




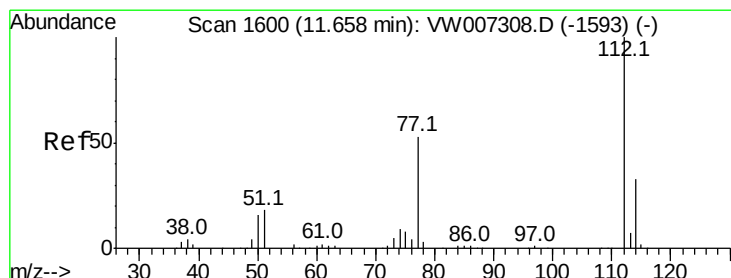
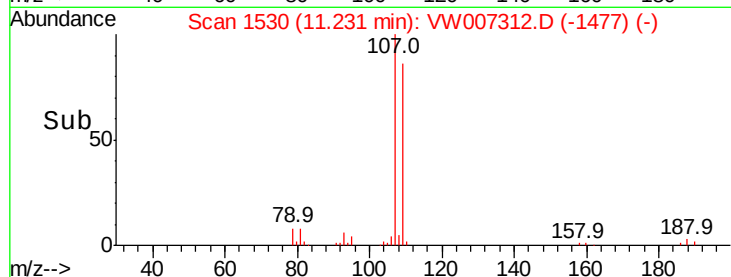
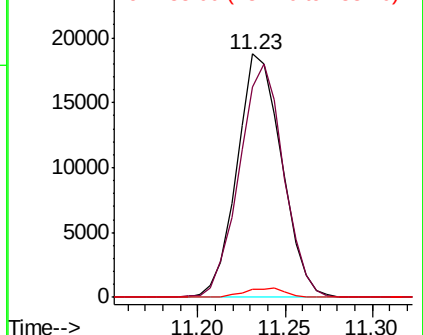
#51
1,2-Dibromoethane
Concen: 21.342 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. -0.01 min
Lab File: VW007312.D
Acq: 07 Dec 2018 17:10

Instrument :
MSVOA_W
ClientSampleId :
VSTD02598

Tot Ion:107 Resp: 33374
Ion Ratio Lower Upper
107 100
109 86.2 67.6 125.6
188 3.5 2.6 4.0

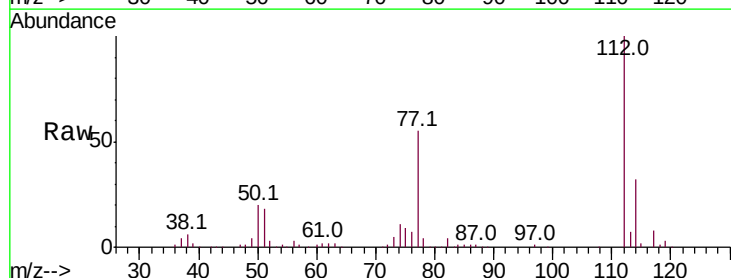


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

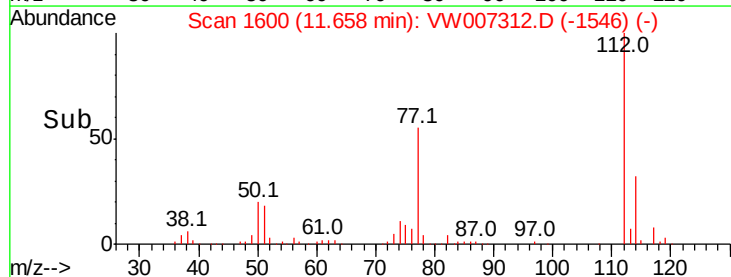
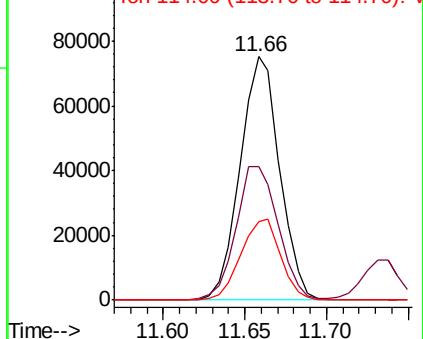


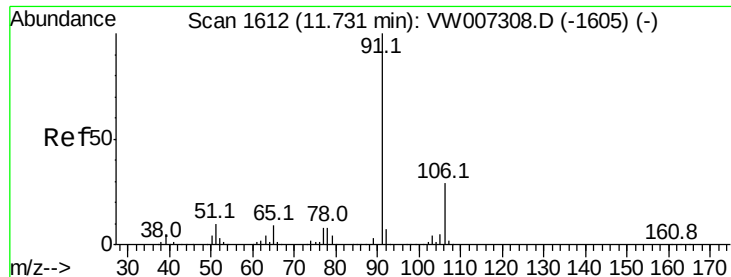
#52
Chlorobenzene
Concen: 23.502 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW007312.D
Acq: 07 Dec 2018 17:10

Tgt Ion:112 Resp: 127091
Ion Ratio Lower Upper
112 100
77 54.9 42.6 63.8
114 32.4 23.0 42.8



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





#53

Ethylbenzene

Concen: 25.288 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

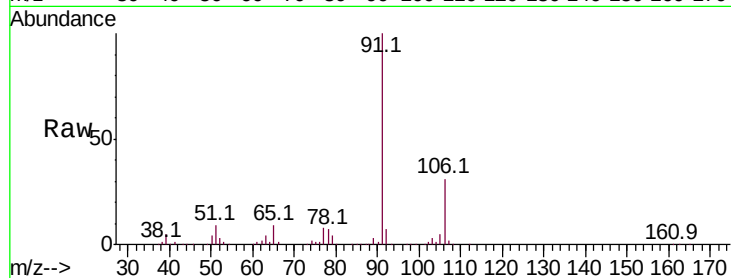
VSTD02598

Tot Ion: 91 Resp: 236925

Ion Ratio Lower Upper

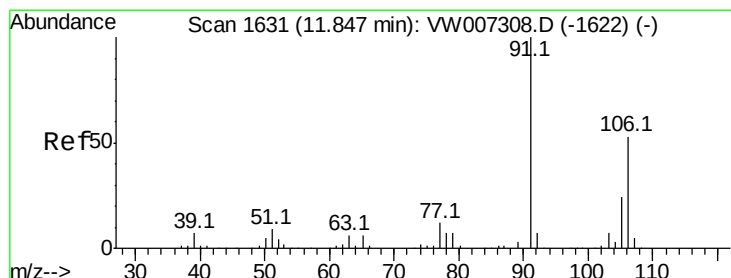
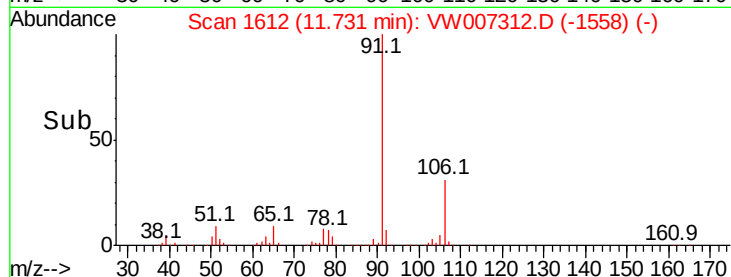
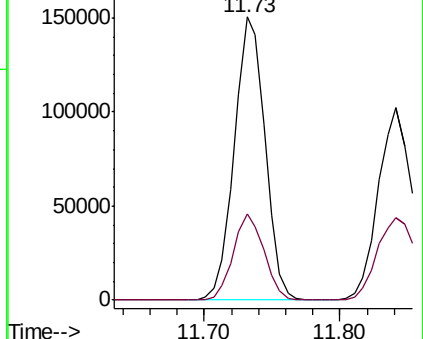
91 100

106 30.6 20.2 37.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 24.281 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.01 min

Lab File: VW007312.D

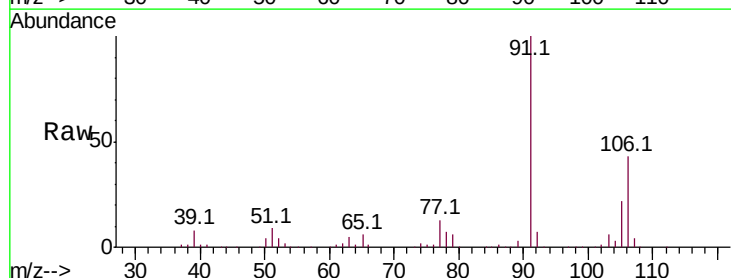
Acq: 07 Dec 2018 17:10

Tgt Ion:106 Resp: 86418

Ion Ratio Lower Upper

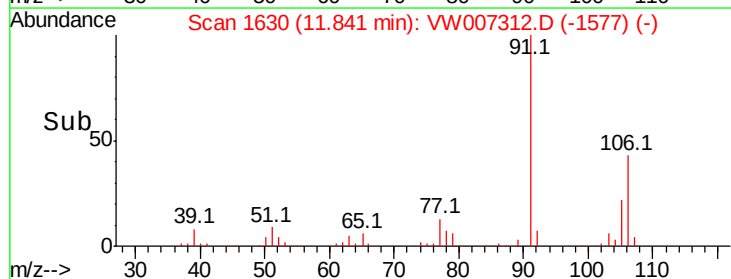
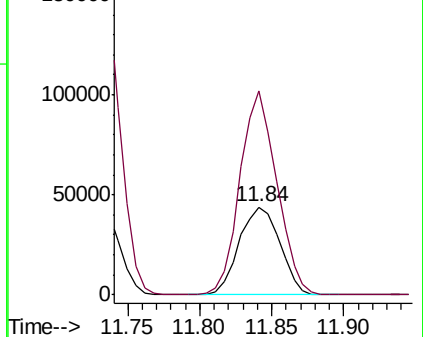
106 100

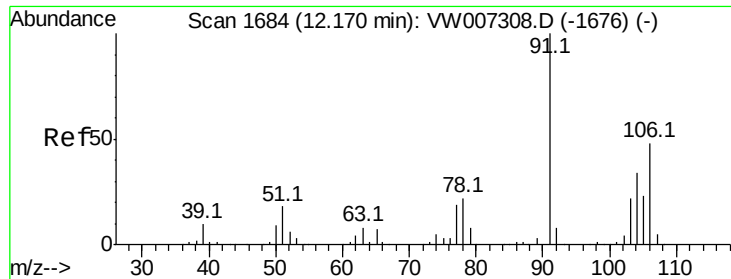
91 233.2 132.2 245.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#55

o-xylene

Concen: 24.283 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.01 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

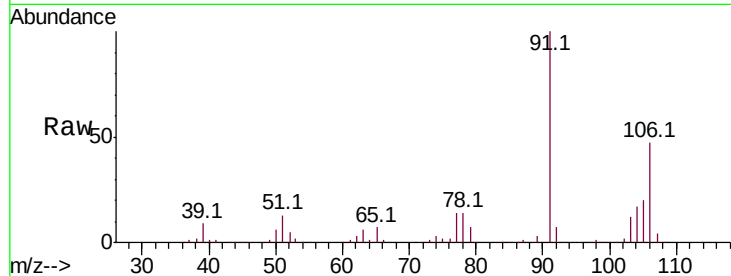
VSTD02598

Tot Ion:106 Resp: 81673

Ion Ratio Lower Upper

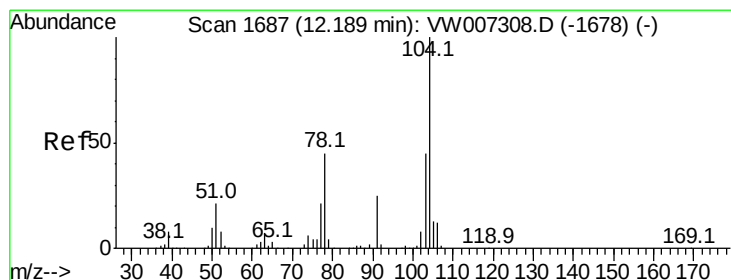
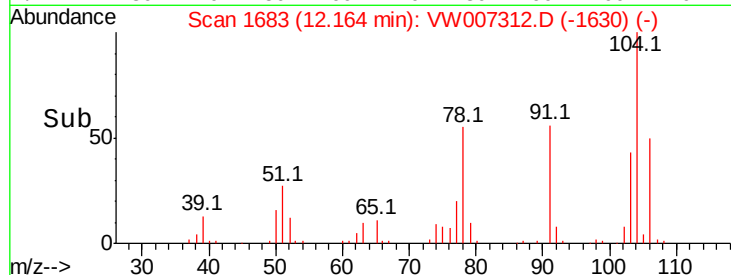
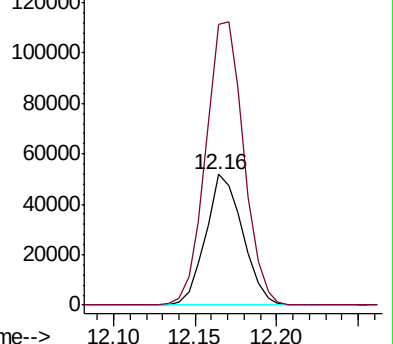
106 100

91 214.5 147.0 273.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 24.134 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.01 min

Lab File: VW007312.D

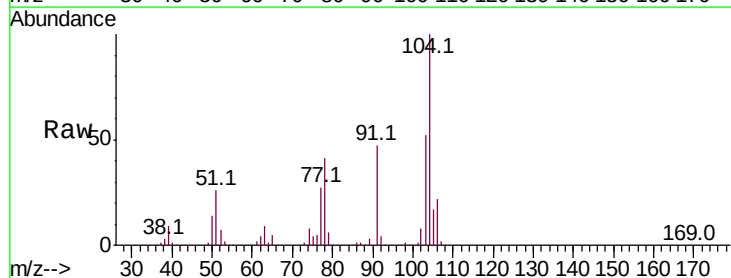
Acq: 07 Dec 2018 17:10

Tgt Ion:104 Resp: 139141

Ion Ratio Lower Upper

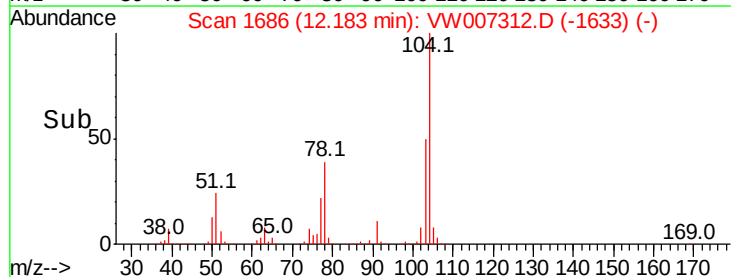
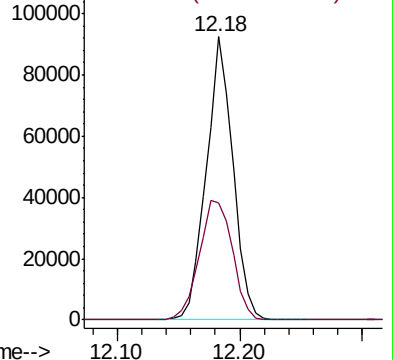
104 100

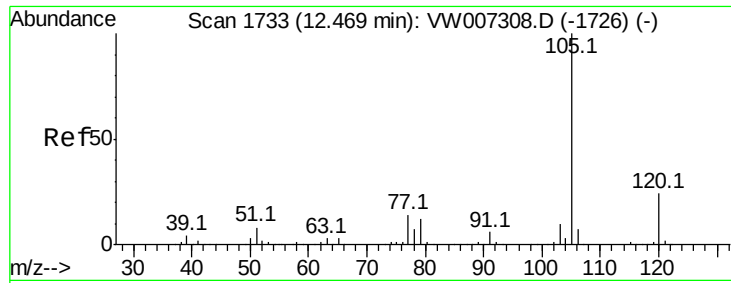
78 41.4 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 24.116 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02598

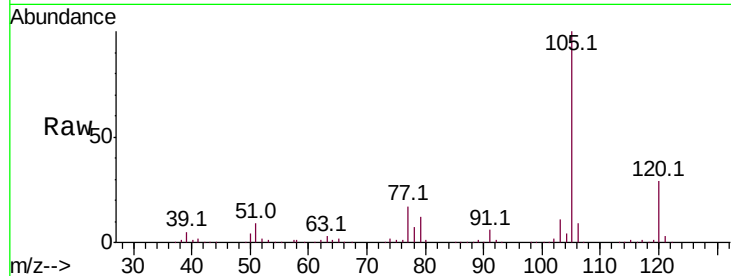
Tot Ion:105 Resp: 226384

Ion Ratio Lower Upper

105 100

120 27.7 20.6 30.8

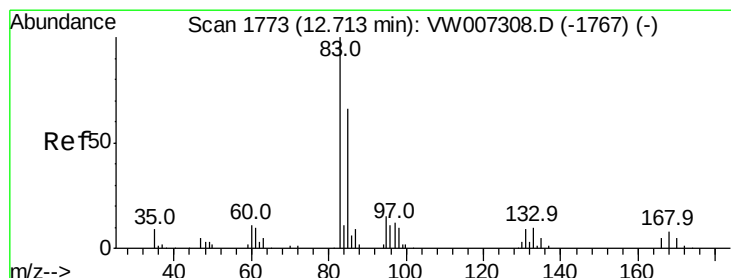
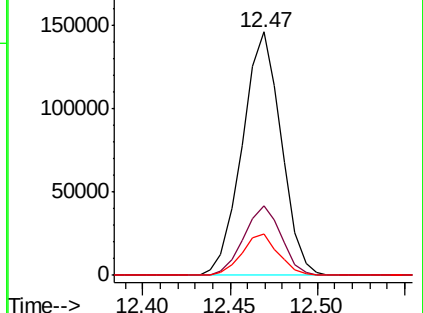
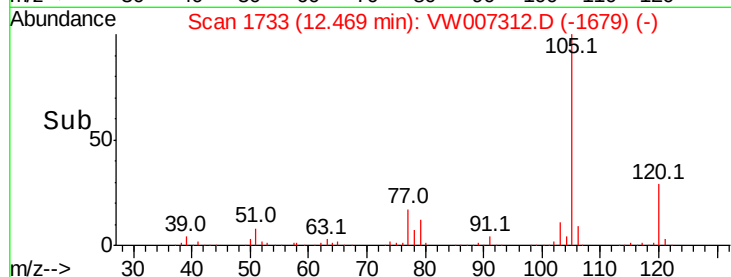
77 16.1 12.2 18.2



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: 19.733 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. 0.01 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

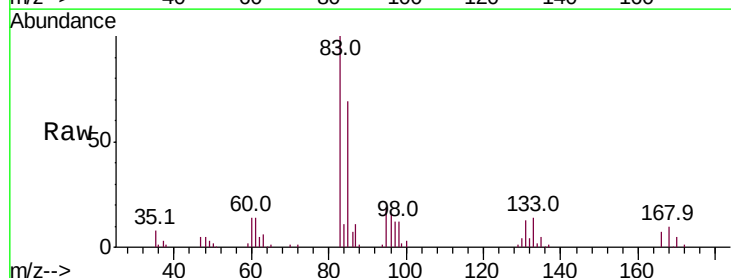
Tgt Ion: 83 Resp: 38088

Ion Ratio Lower Upper

83 100

85 69.0 46.2 85.8

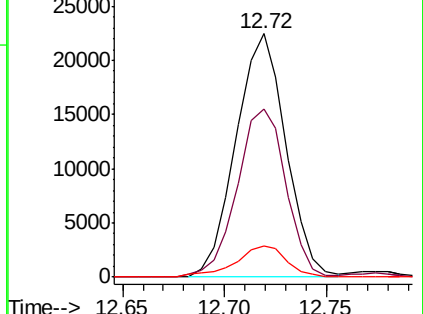
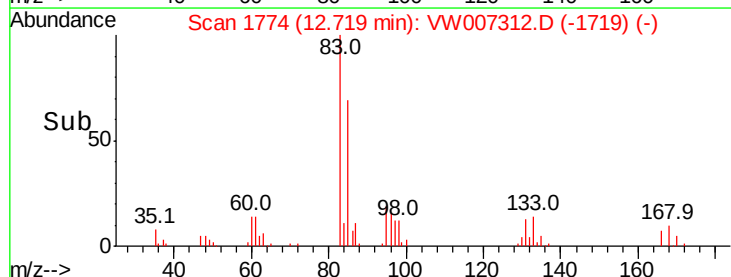
131 12.6 7.8 11.6#

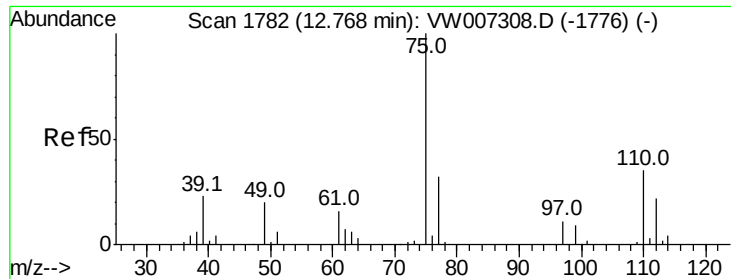


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 19.378 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. 0.01 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

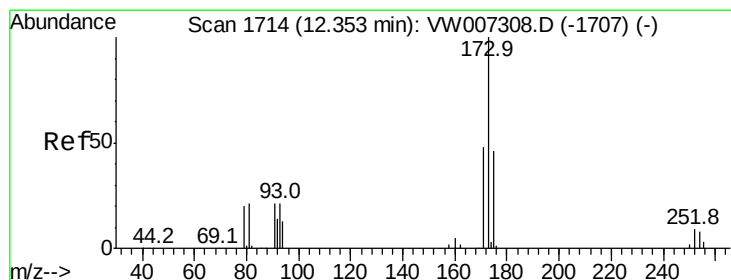
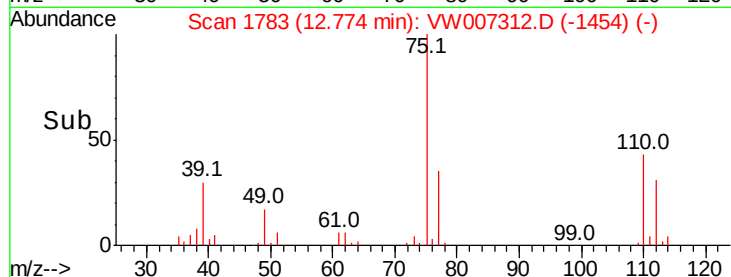
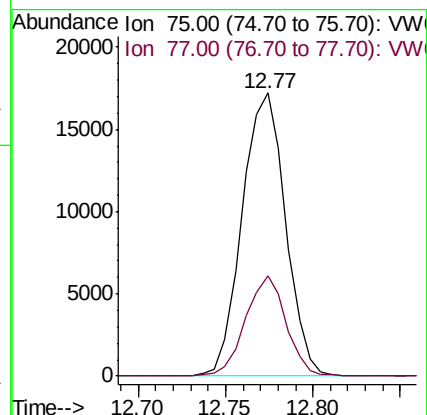
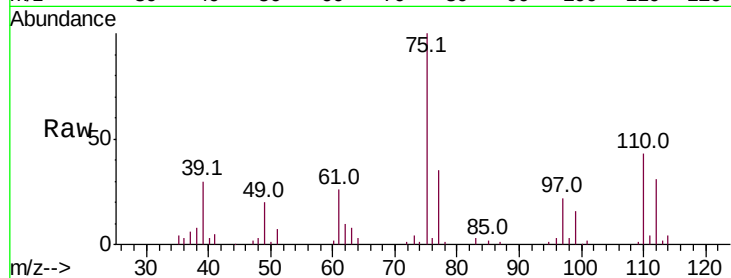
VSTD02598

Tot Ion: 75 Resp: 29608

Ion Ratio Lower Upper

75 100

77 33.1 26.5 39.7



#62

Bromoform

Concen: 20.705 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

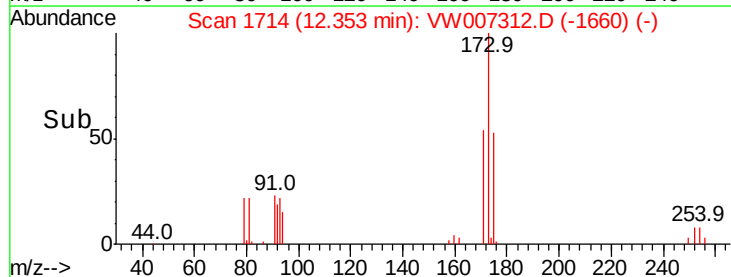
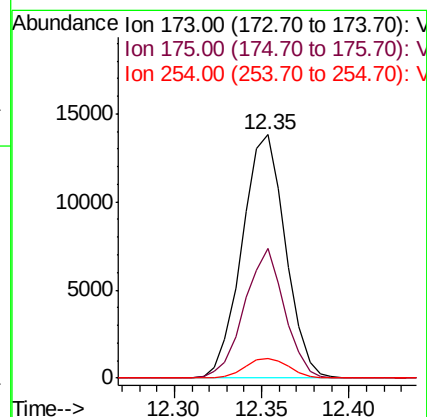
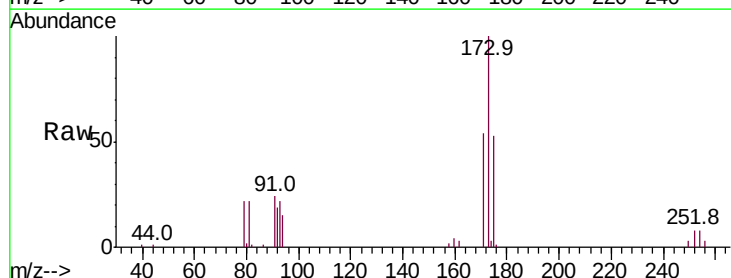
Tgt Ion:173 Resp: 24001

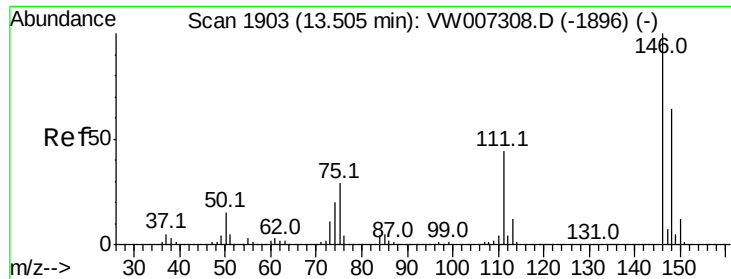
Ion Ratio Lower Upper

173 100

175 49.1 38.6 58.0

254 8.1 6.4 9.6

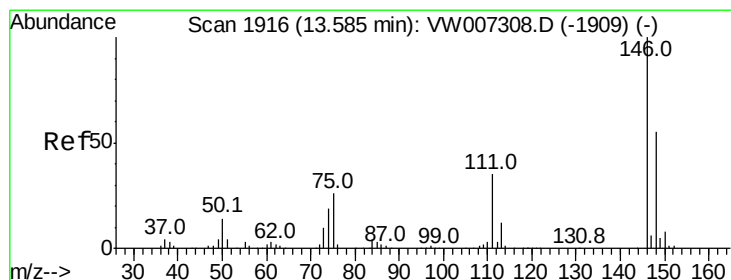
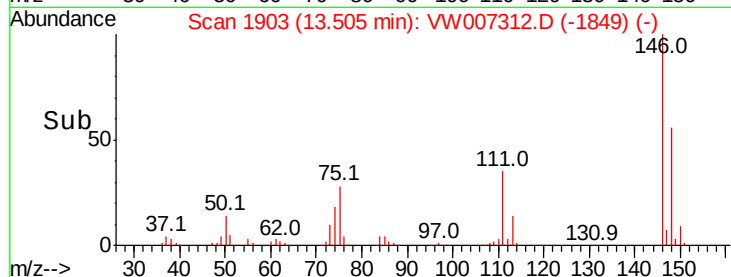
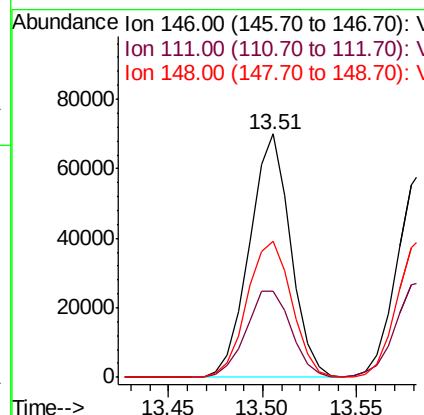
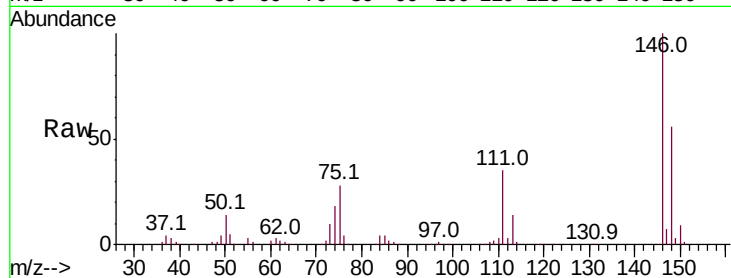




#63
 1,3-Dichlorobenzene
 Concen: 24.314 ug/L
 RT: 13.51 min Scan# 1903
 Delta R.T. 0.00 min
 Lab File: VW007312.D
 Acq: 07 Dec 2018 17:10

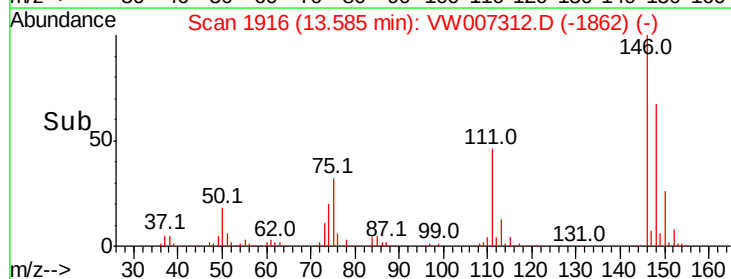
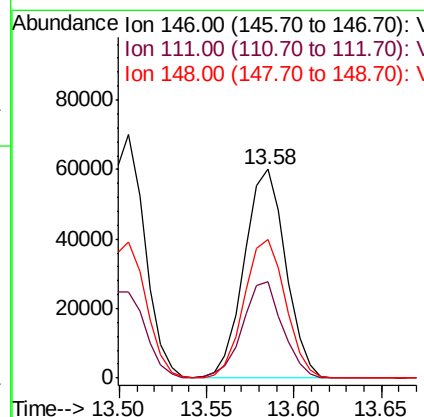
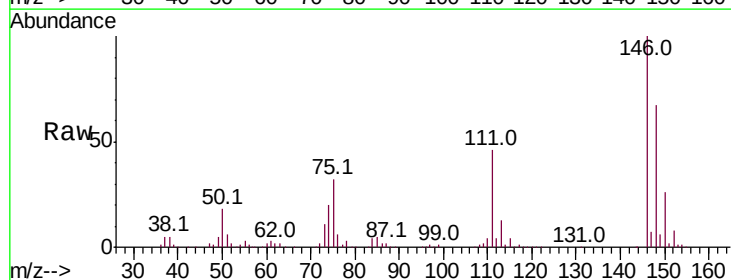
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02598

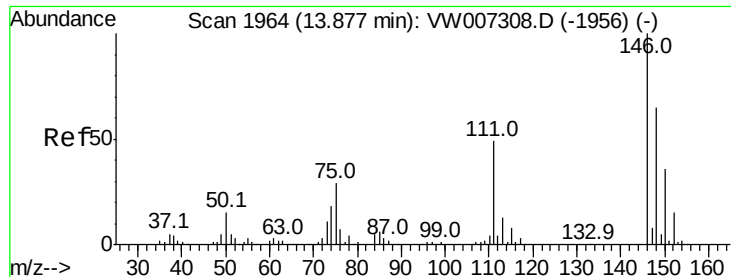
Tot Ion:146 Resp: 105729
 Ion Ratio Lower Upper
 146 100
 111 35.1 31.0 57.6
 148 56.1 44.7 83.1



#64
 1,4-Dichlorobenzene
 Concen: 22.898 ug/L
 RT: 13.58 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VW007312.D
 Acq: 07 Dec 2018 17:10

Tgt Ion:146 Resp: 99263
 Ion Ratio Lower Upper
 146 100
 111 46.0 24.8 46.0
 148 66.7 38.7 71.9





#65

1,2-Dichlorobenzene

Concen: 23.761 ug/L

RT: 13.88 min Scan# 1964

Delta R.T. 0.00 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02598

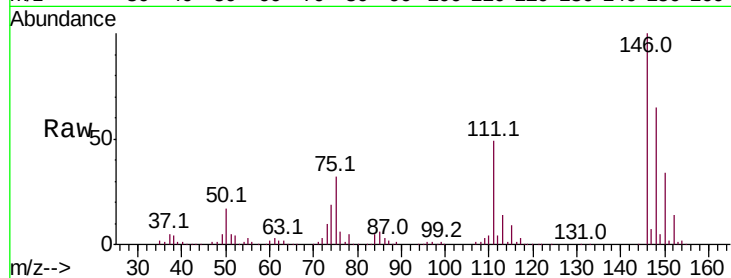
Tot Ion:146 Resp: 92473

Ion Ratio Lower Upper

146 100

111 49.3 39.3 58.9

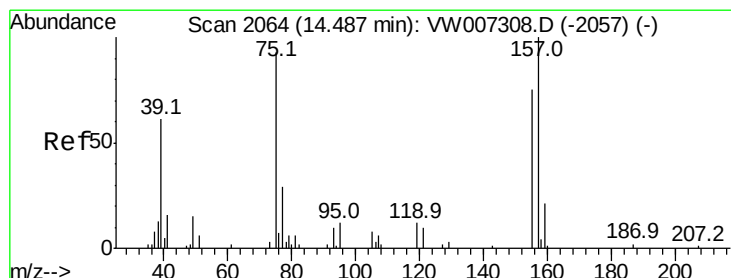
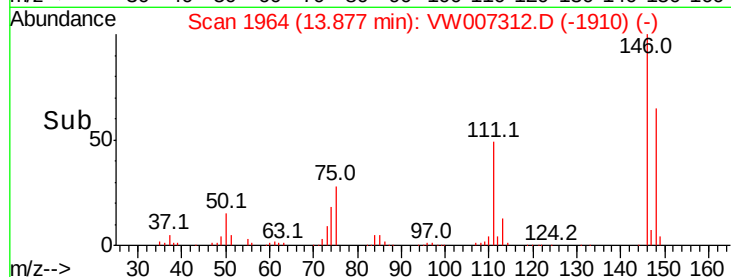
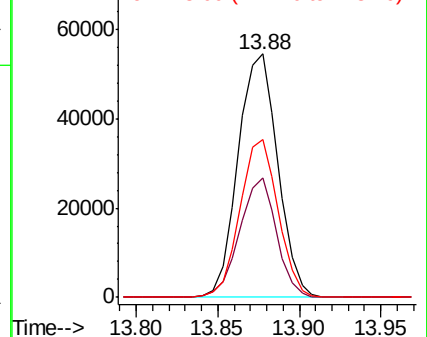
148 64.9 51.8 77.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 19.018 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

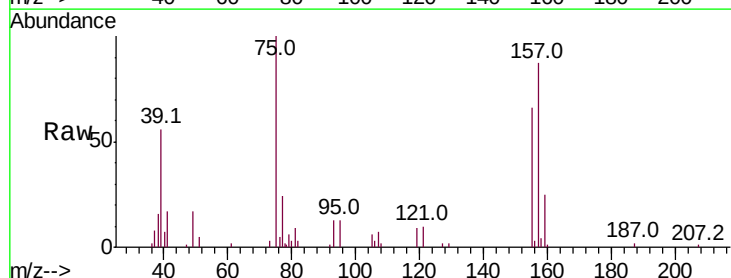
Tgt Ion: 75 Resp: 7839

Ion Ratio Lower Upper

75 100

157 87.1 86.0 129.0

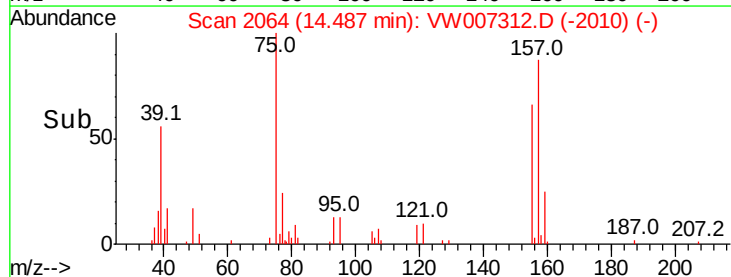
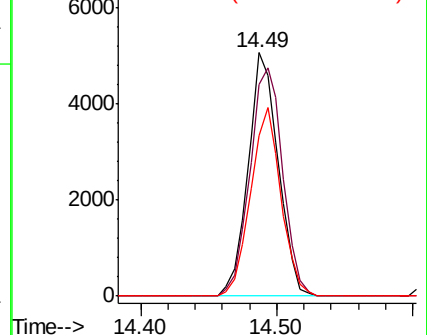
155 65.8 64.9 97.3

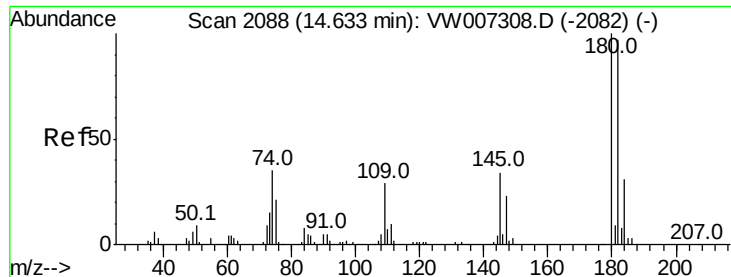


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

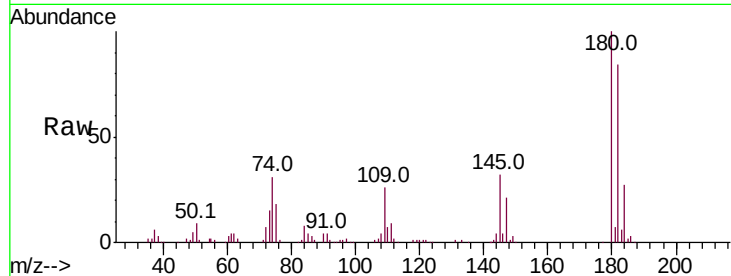




#67
 1,3,5-Trichlorobenzene
 Concen: 24.345 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VW007312.D
 Acq: 07 Dec 2018 17:10

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02598

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.7	74.6	111.8
184	30.2	24.7	37.1
145	33.0	27.2	40.8



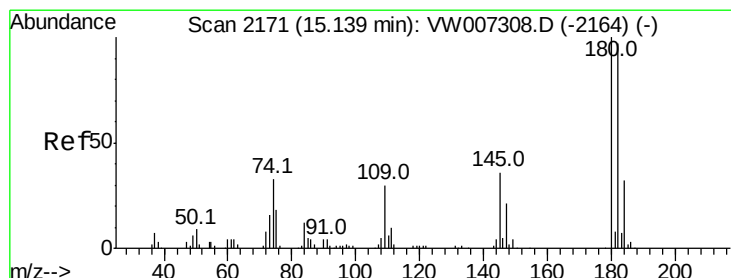
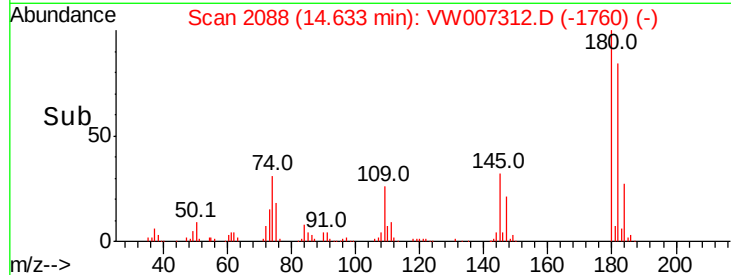
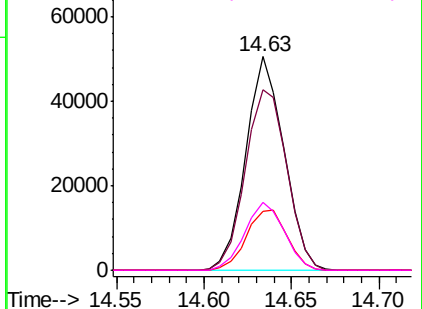
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

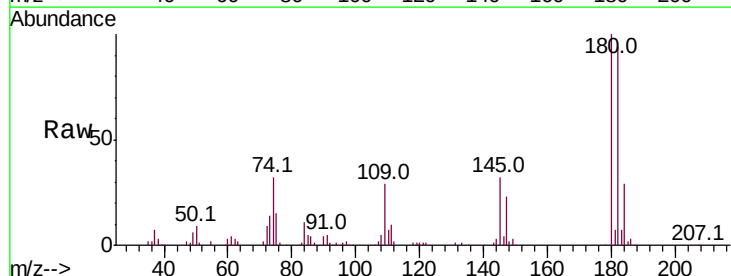
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 23.707 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW007312.D
 Acq: 07 Dec 2018 17:10

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.9	77.4	116.2
145	33.7	28.4	42.6

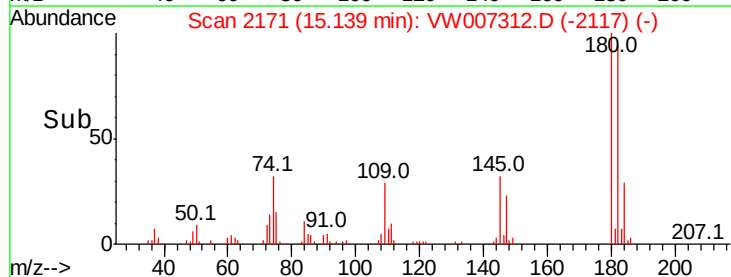
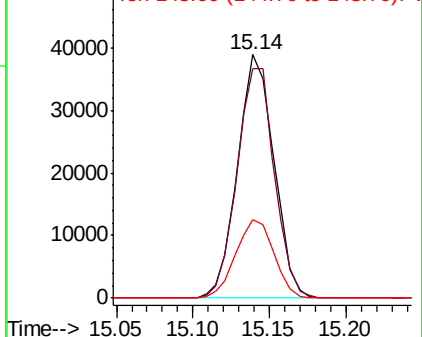


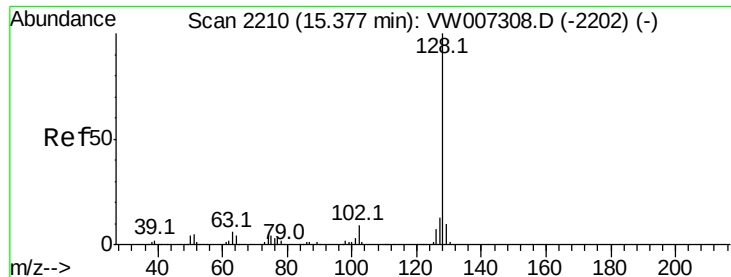
Abundance

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: 20.121 ug/L

RT: 15.38 min Scan# 2210

Delta R.T. 0.00 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02598

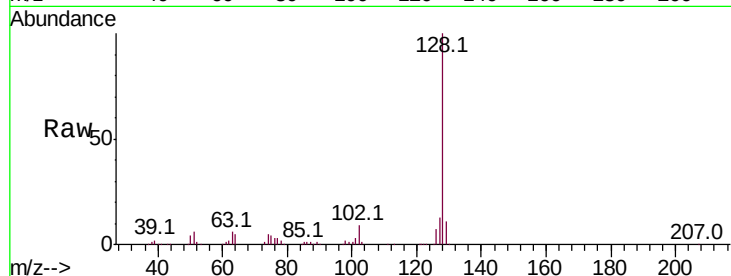
Tot Ion:128 Resp: 135071

Ion Ratio Lower Upper

128 100

129 10.6 8.8 13.2

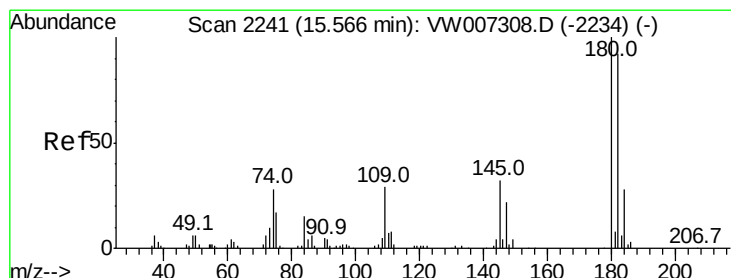
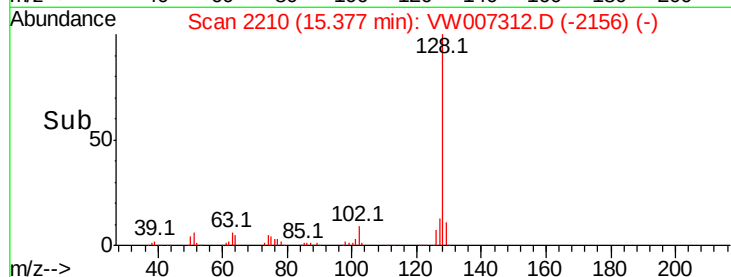
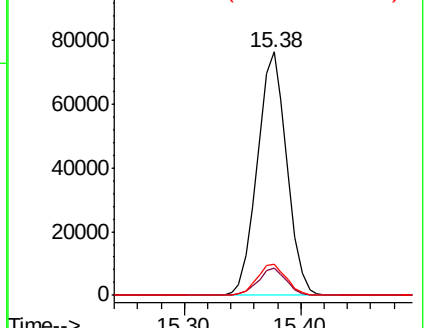
127 12.9 10.7 16.1



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: 22.678 ug/L

RT: 15.57 min Scan# 2241

Delta R.T. 0.00 min

Lab File: VW007312.D

Acq: 07 Dec 2018 17:10

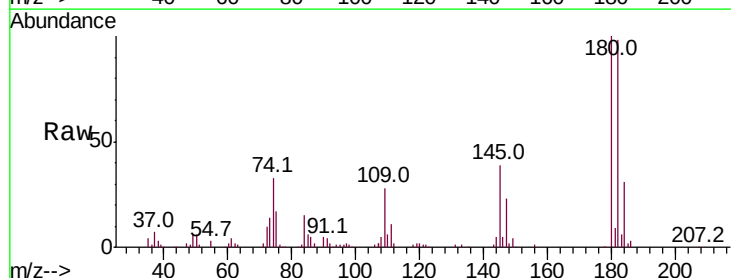
Tgt Ion:180 Resp: 55991

Ion Ratio Lower Upper

180 100

182 94.9 76.2 114.4

145 36.1 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

