

Data File : VW007447.D
Acq On : 12 Dec 2018 17:10
Operator : SY/AP
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02587

Quant Time: Dec 13 00:44:43 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120718S.M
Quant Title : VOC Analysis
QLast Update : Thu Dec 13 00:38:14 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	133031	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	120476	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	61686	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	22746	26.25	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	105.00%
7) Chloroethane-d5	2.89	69	17657	24.06	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	96.24%
10) 1,1-Dichloroethene-d2	4.01	63	79554	26.62	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	106.48%
20) 2-Butanone-d5	7.07	46	20305	37.18	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	74.36%
24) Chloroform-d	7.65	84	86040	27.42	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	109.68%
26) 1,2-Dichloroethane-d4	8.31	65	46459	26.01	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	104.04%
29) Benzene-d6	8.27	84	162323	24.81	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	99.24%
33) 1,2-Dichloropropane-d6	9.27	67	45570	24.40	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	97.60%
37) Toluene-d8	10.32	98	155224	25.30	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	101.20%
38) trans-1,3-Dichloropropene-	10.58	79	22484	23.55	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	94.20%
39) 2-Hexanone-d5	10.93	63	17400	38.71	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	77.42%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	39015	22.93	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	91.72%
61) 1,2-Dichlorobenzene-d4	13.86	152	57043	26.29	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	105.16%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	42028	28.928 ug/L	95
3) Chloromethane	2.22	50	24712	21.248 ug/L	96
5) Vinyl chloride	2.37	62	30665	27.947 ug/L	99
6) Bromomethane	2.78	94	19347	25.492 ug/L	99
8) Chloroethane	2.93	64	16138	24.434 ug/L	98
9) Trichlorofluoromethane	3.26	101	29670	23.557 ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	43272	25.772 ug/L	98
12) 1,1-Dichloroethene	4.04	96	42413	27.148 ug/L	88
13) Acetone	4.12	43	19898	31.330 ug/L	94
14) Carbon disulfide	4.37	76	125174	27.441 ug/L	99
15) Methyl Acetate	4.67	43	17199	18.060 ug/L #	89
16) Methylene chloride	4.91	84	44023	20.481 ug/L	100
17) Methyl tert-butyl Ether	5.43	73	62064	24.431 ug/L #	88
18) trans-1,2-Dichloroethene	5.42	96	44755	26.702 ug/L	97
19) 1,1-Dichloroethane	6.21	63	75772	26.522 ug/L	96
21) 2-Butanone	7.17	43	24998	36.620 ug/L	100
22) cis-1,2-Dichloroethene	7.17	96	48722	26.416 ug/L	96

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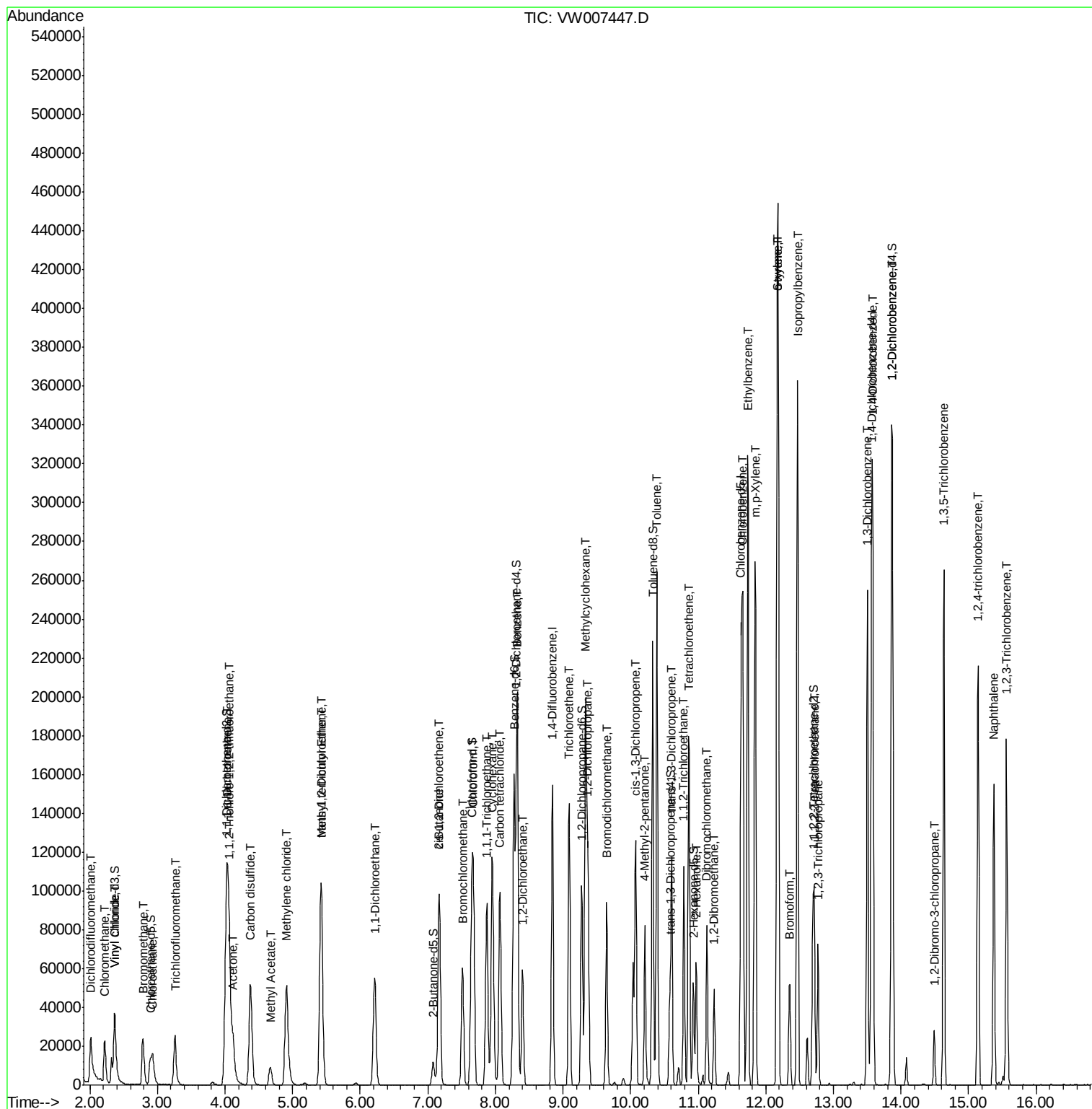
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	22390	26.629	ug/L	94
25) Chloroform	7.67	83	86332	27.928	ug/L	100
27) 1,2-Dichloroethane	8.40	62	57675	26.100	ug/L	98
30) Cyclohexane	7.95	56	67572	23.379	ug/L	98
31) 1,1,1-Trichloroethane	7.87	97	75949	26.785	ug/L	100
32) Carbon tetrachloride	8.07	117	74017	27.012	ug/L	98
34) Benzene	8.32	78	176388	25.543	ug/L	100
35) Trichloroethene	9.09	95	49098	24.795	ug/L	98
36) Methylcyclohexane	9.34	83	84031	24.582	ug/L	98
40) 1,2-Dichloropropane	9.37	63	42195	24.980	ug/L	99
41) Bromodichloromethane	9.65	83	62472	25.757	ug/L	100
42) cis-1,3-Dichloropropene	10.07	75	70951	25.011	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	49315	36.884	ug/L	99
44) Toluene	10.39	91	192804	25.903	ug/L	94
45) trans-1,3-Dichloropropene	10.61	75	61973	24.876	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	34204	24.591	ug/L	96
47) Tetrachloroethene	10.87	164	40063	26.784	ug/L	93
49) 2-Hexanone	10.97	43	37003	39.378	ug/L	97
50) Dibromochloromethane	11.13	129	45128	26.410	ug/L	100
51) 1,2-Dibromoethane	11.24	107	33752	24.162	ug/L	99
52) Chlorobenzene	11.66	112	130975	27.113	ug/L	98
53) Ethylbenzene	11.73	91	228222	27.268	ug/L	98
54) m,p-Xylene	11.84	106	87573	27.545	ug/L	88
55) o-xylene	12.17	106	83300	27.724	ug/L	95
56) Styrene	12.18	104	143174	27.799	ug/L	97
57) Isopropylbenzene	12.47	105	235031	28.028	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.72	83	39537	22.930	ug/L #	95
59) 1,2,3-Trichloropropane	12.77	75	30757	22.535	ug/L	97
62) Bromoform	12.35	173	25079	23.740	ug/L	99
63) 1,3-Dichlorobenzene	13.51	146	105134	26.529	ug/L	97
64) 1,4-Dichlorobenzene	13.58	146	106130	26.864	ug/L	92
65) 1,2-Dichlorobenzene	13.87	146	98883	27.881	ug/L	94
66) 1,2-Dibromo-3-chloropropan	14.49	75	7622	20.290	ug/L	91
67) 1,3,5-Trichlorobenzene	14.63	180	78948	27.501	ug/L	98
68) 1,2,4-trichlorobenzene	15.14	180	66777	26.981	ug/L	97
69) Naphthalene	15.37	128	137285	22.441	ug/L	100
70) 1,2,3-Trichlorobenzene	15.56	180	59619	26.497	ug/L	99

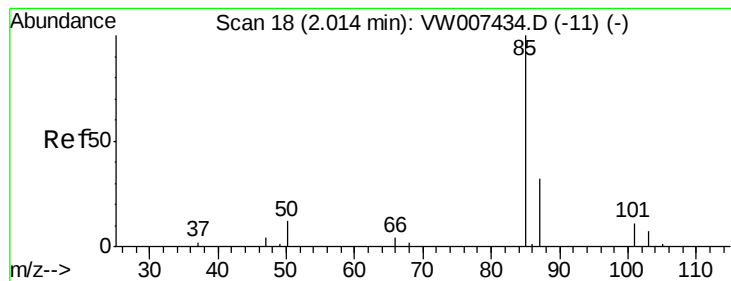
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 28.928 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

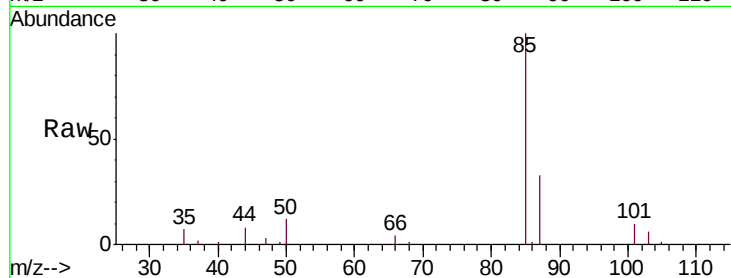
VSTD02587

Tgt Ion: 85 Resp: 42028

Ion Ratio Lower Upper

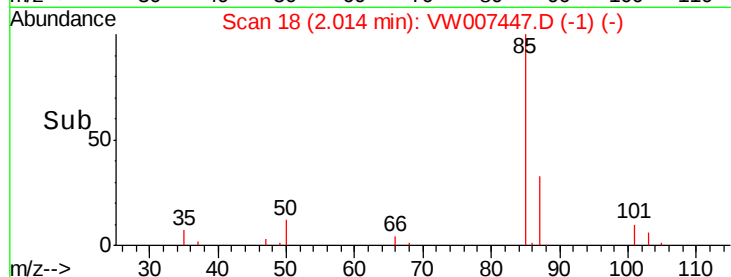
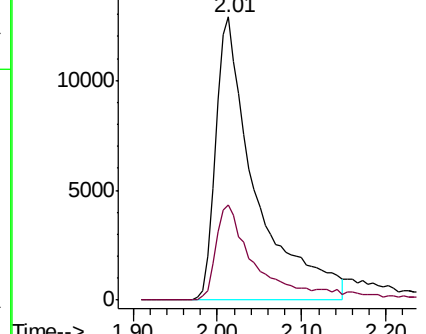
85 100

87 30.1 23.2 43.0

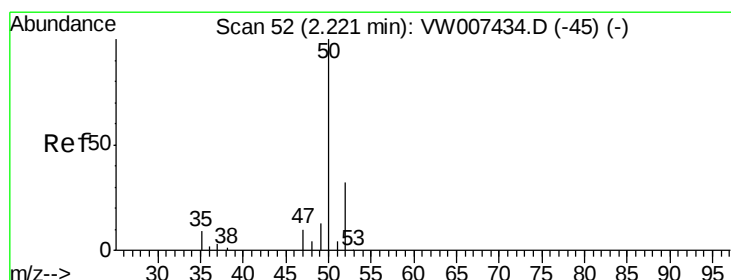


Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



Time-->



#3

Chloromethane

Concen: 21.248 ug/L

RT: 2.22 min Scan# 52

Delta R.T. -0.00 min

Lab File: VW007447.D

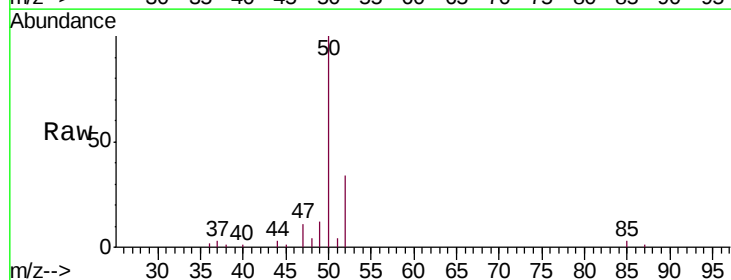
Acq: 12 Dec 2018 17:10

Tgt Ion: 50 Resp: 24712

Ion Ratio Lower Upper

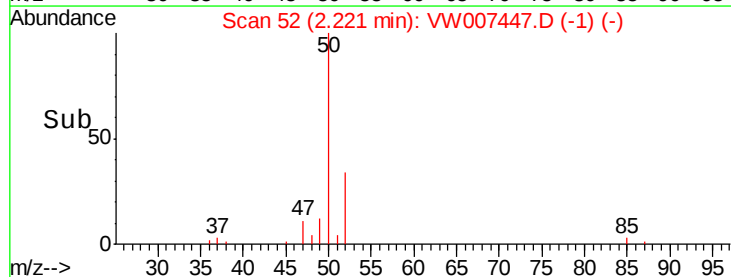
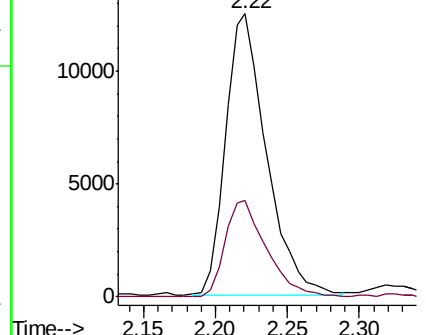
50 100

52 34.0 22.2 41.2

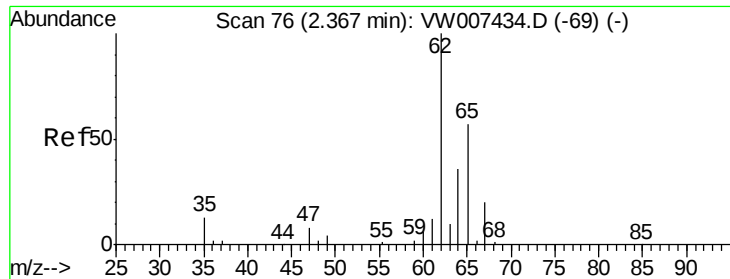


Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW



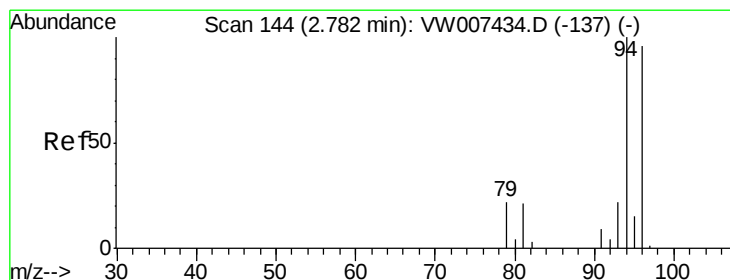
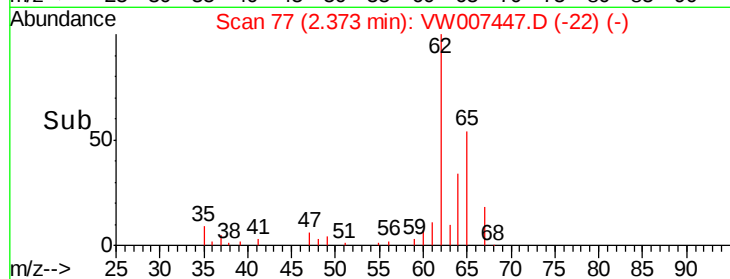
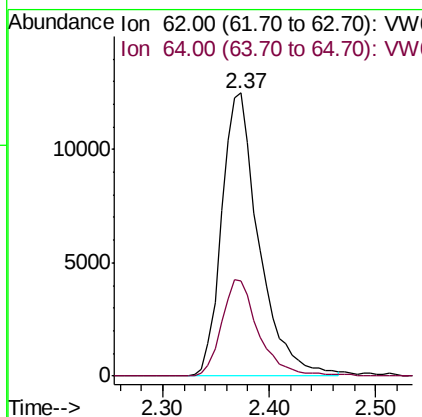
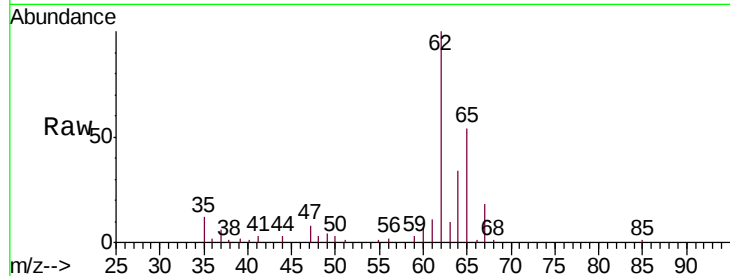
Time-->



#5
 Vinyl chloride
 Concen: 27.947 ug/L
 RT: 2.37 min Scan# 77
 Delta R.T. 0.01 min
 Lab File: VW007447.D
 Acq: 12 Dec 2018 17:10

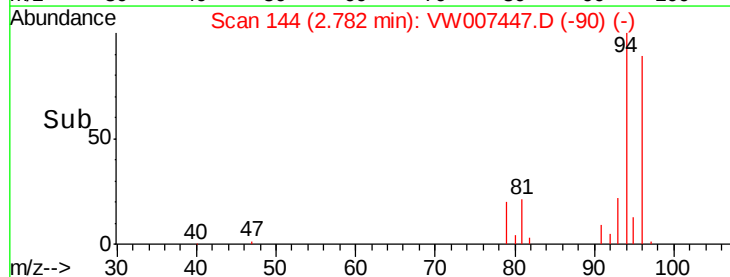
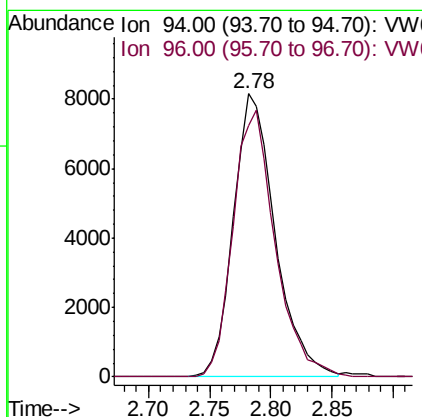
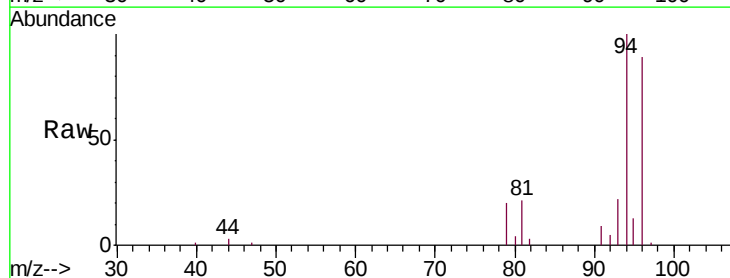
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02587

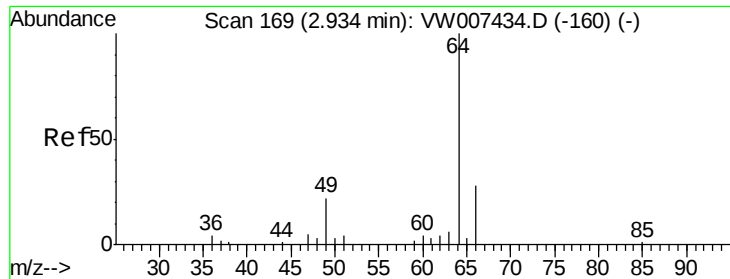
Tgt Ion: 62 Resp: 30665
 Ion Ratio Lower Upper
 62 100
 64 33.5 23.9 44.3



#6
 Bromomethane
 Concen: 25.492 ug/L
 RT: 2.78 min Scan# 144
 Delta R.T. -0.00 min
 Lab File: VW007447.D
 Acq: 12 Dec 2018 17:10

Tgt Ion: 94 Resp: 19347
 Ion Ratio Lower Upper
 94 100
 96 95.0 9.6 181.8





#8

Chloroethane

Concen: 24.434 ug/L

RT: 2.93 min Scan# 169

Delta R.T. -0.00 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

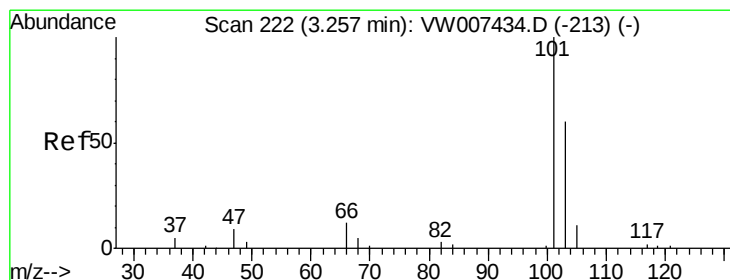
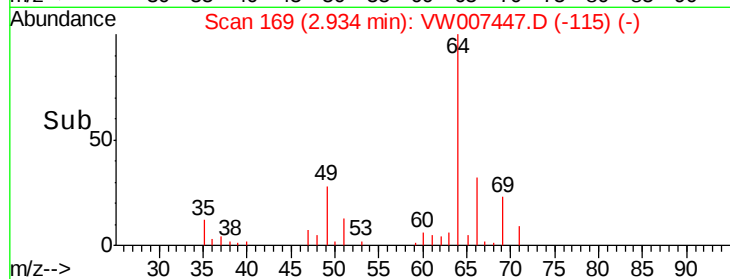
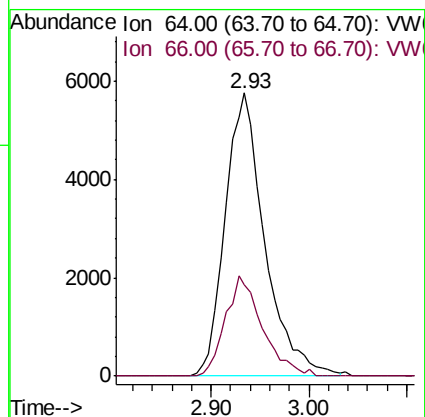
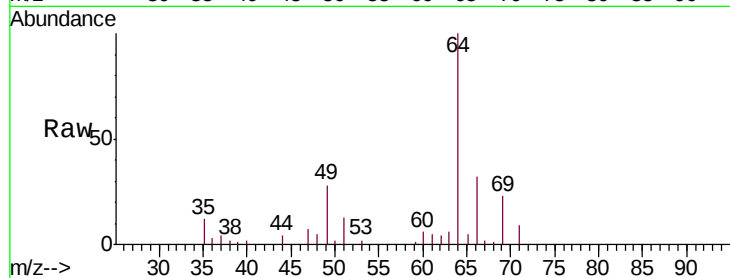
VSTD02587

Tgt Ion: 64 Resp: 16138

Ion Ratio Lower Upper

64 100

66 32.2 23.2 43.2



#9

Trichlorofluoromethane

Concen: 23.557 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW007447.D

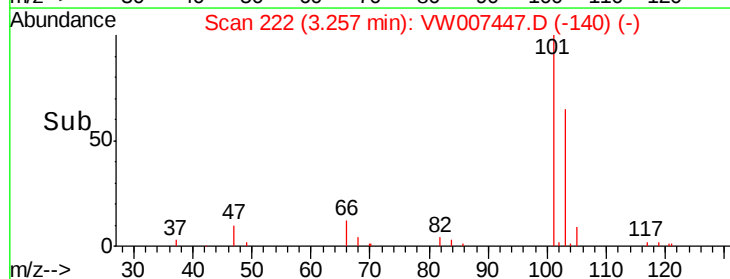
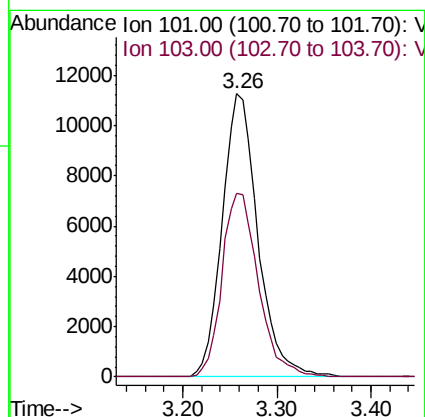
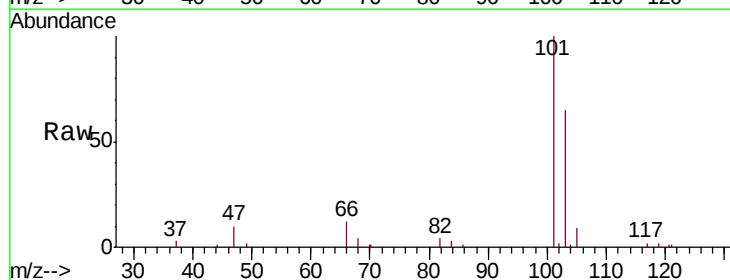
Acq: 12 Dec 2018 17:10

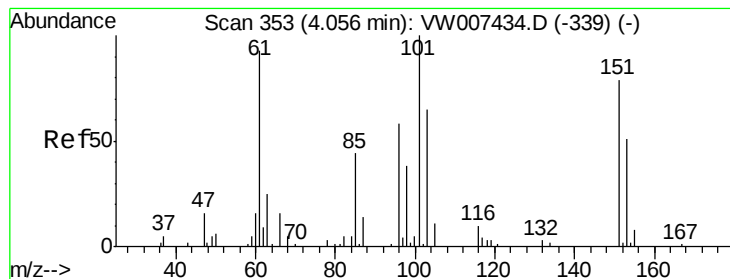
Tgt Ion: 101 Resp: 29670

Ion Ratio Lower Upper

101 100

103 65.9 44.7 82.9





#11

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

Concen: 25.772 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.01 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02587

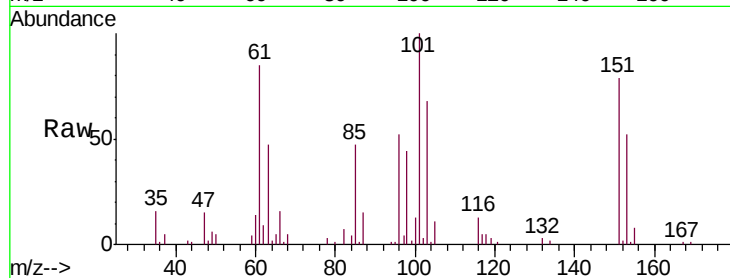
Tgt Ion:101 Resp: 43272

Ion Ratio Lower Upper

101 100

85 45.7 35.4 53.2

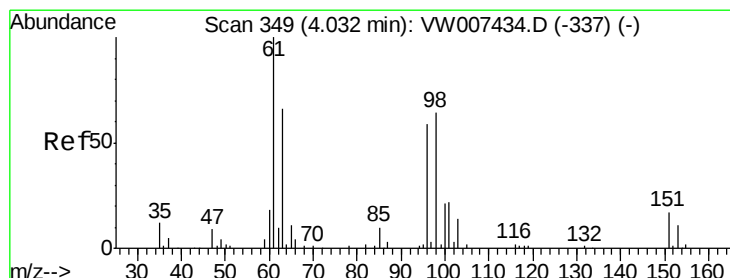
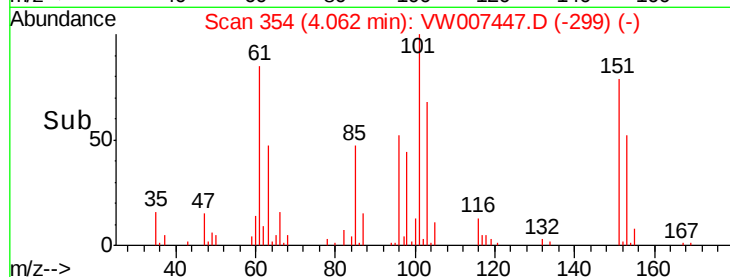
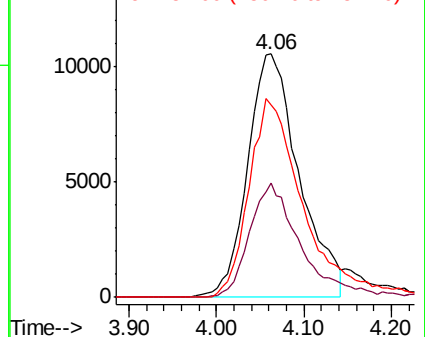
151 82.7 64.8 97.2



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: 27.148 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.01 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

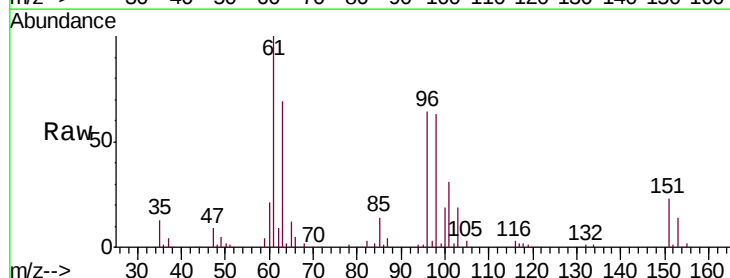
Tgt Ion: 96 Resp: 42413

Ion Ratio Lower Upper

96 100

61 157.0 117.2 217.8

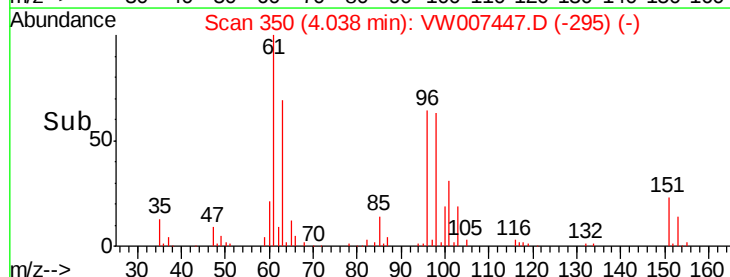
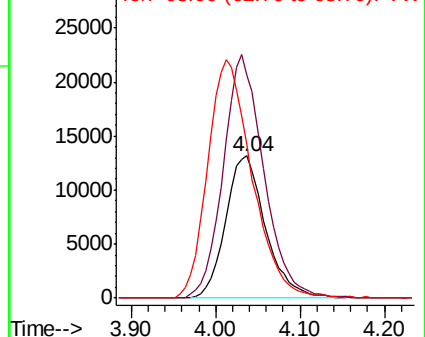
63 107.9 89.7 166.7

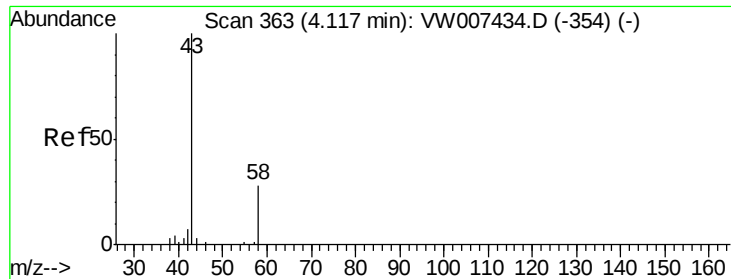


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 31.330 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

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Acq: 12 Dec 2018 17:10

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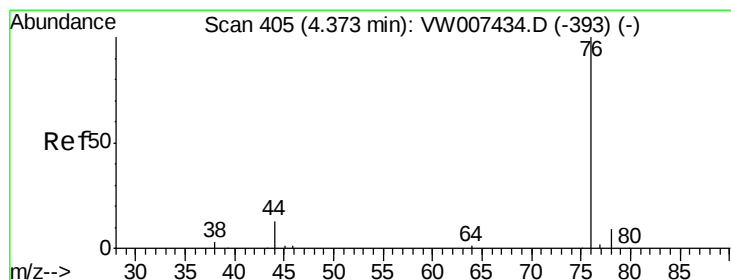
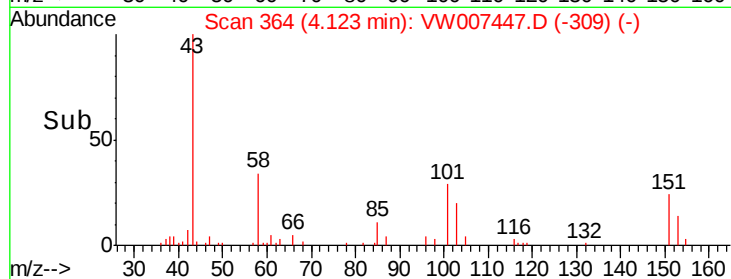
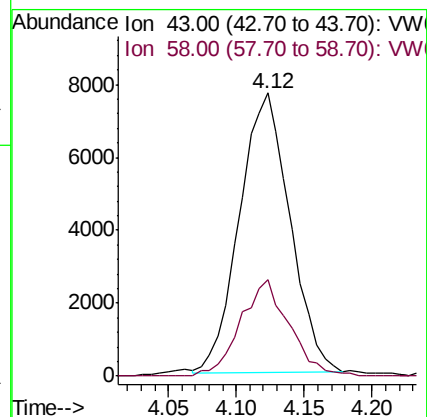
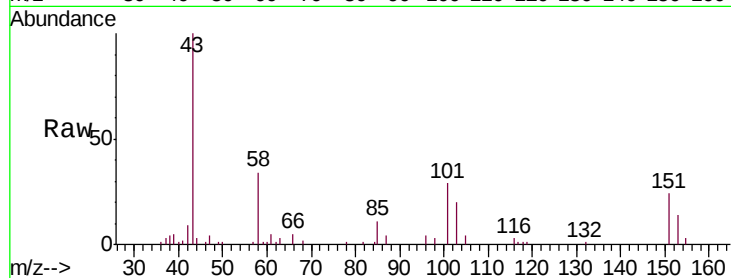
VSTD02587

Tgt Ion: 43 Resp: 19898

Ion Ratio Lower Upper

43 100

58 33.0 0.0 59.2



#14

Carbon disulfide

Concen: 27.441 ug/L

RT: 4.37 min Scan# 405

Delta R.T. -0.00 min

Lab File: VW007447.D

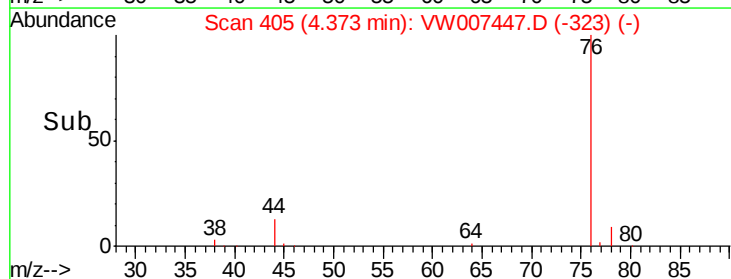
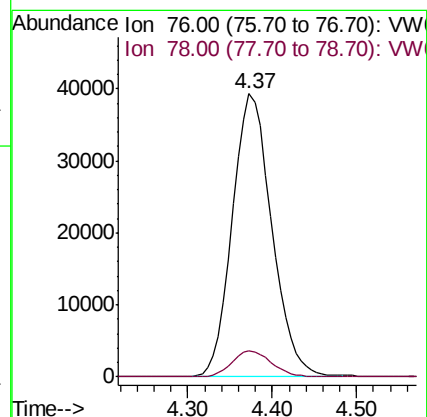
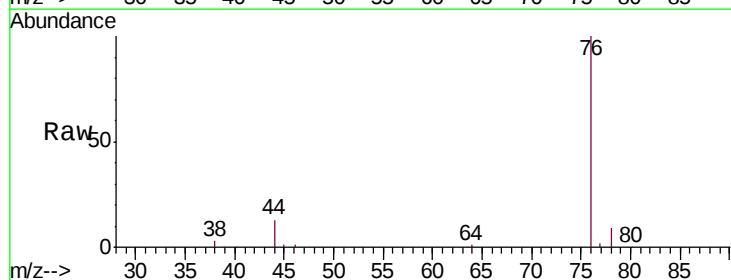
Acq: 12 Dec 2018 17:10

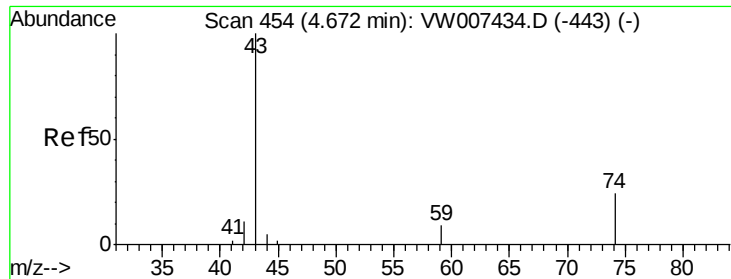
Tgt Ion: 76 Resp: 125174

Ion Ratio Lower Upper

76 100

78 9.3 7.3 10.9





#15

Methyl Acetate

Concen: 18.060 ug/L

RT: 4.67 min Scan# 454

Delta R.T. -0.00 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

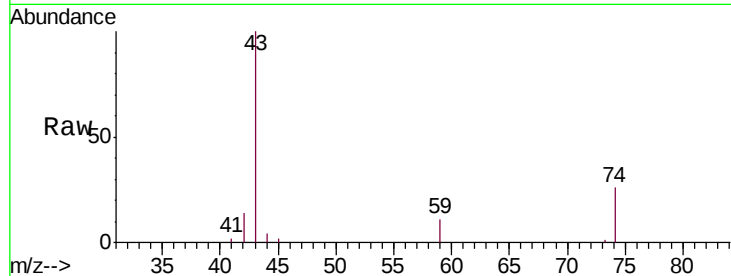
VSTD02587

Tgt Ion: 43 Resp: 17199

Ion Ratio Lower Upper

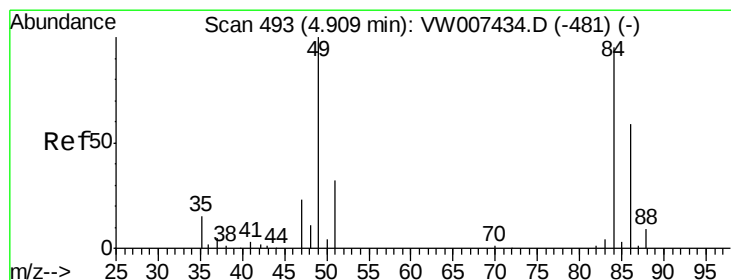
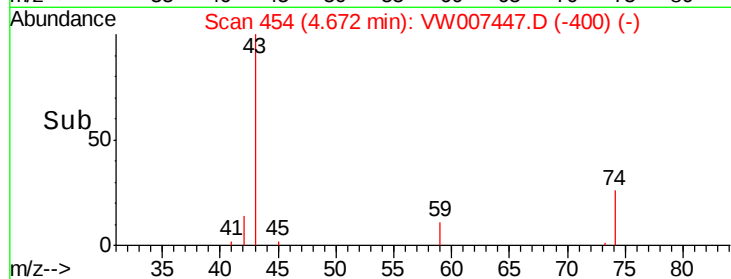
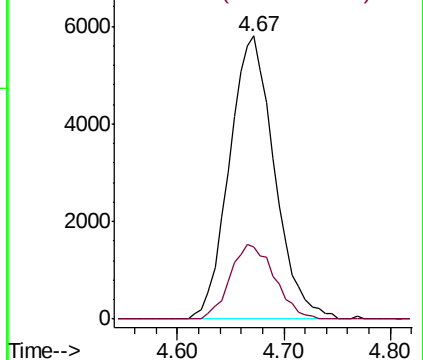
43 100

74 26.0 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: 20.481 ug/L

RT: 4.91 min Scan# 493

Delta R.T. -0.00 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

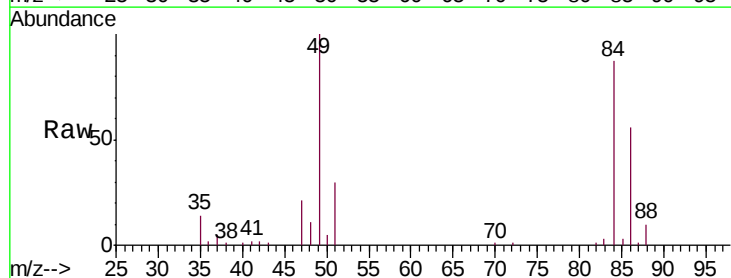
Tgt Ion: 84 Resp: 44023

Ion Ratio Lower Upper

84 100

49 115.5 80.8 150.2

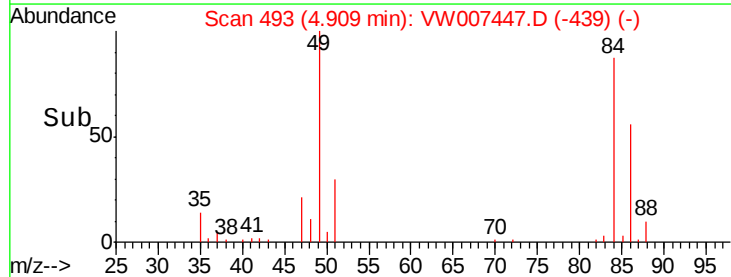
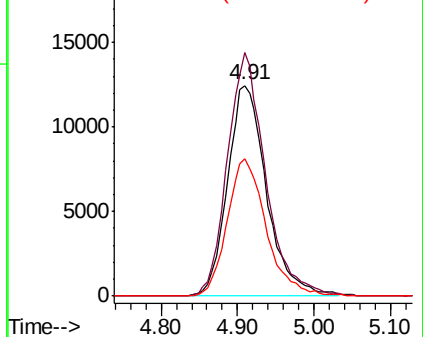
86 65.1 45.8 85.2

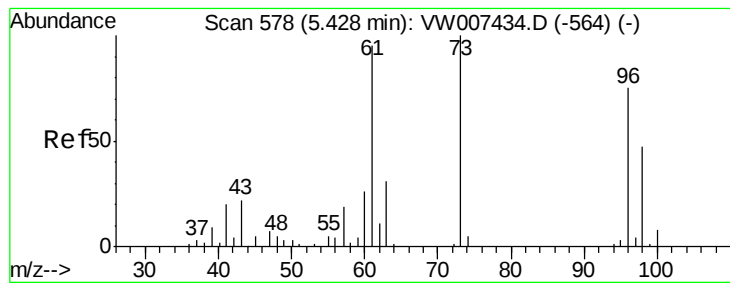


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW





#17

Methyl tert-butyl Ether

Concen: 24.431 ug/L

RT: 5.43 min Scan# 578

Delta R.T. -0.00 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02587

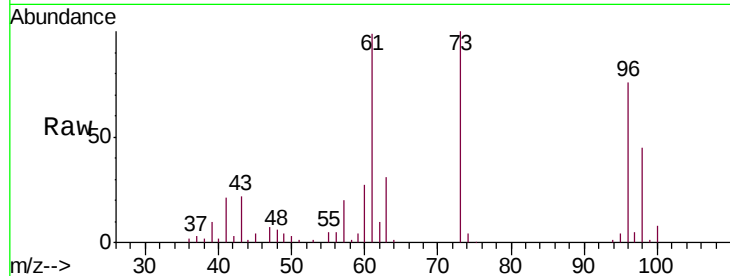
Tgt Ion: 73 Resp: 62064

Ion Ratio Lower Upper

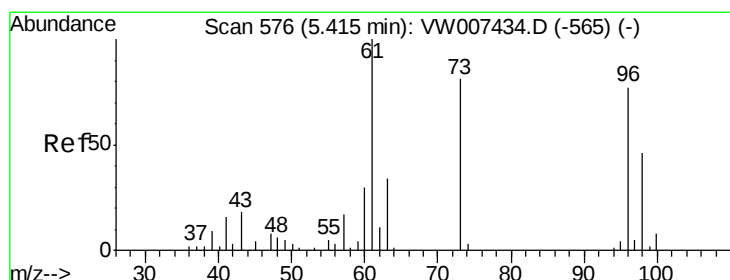
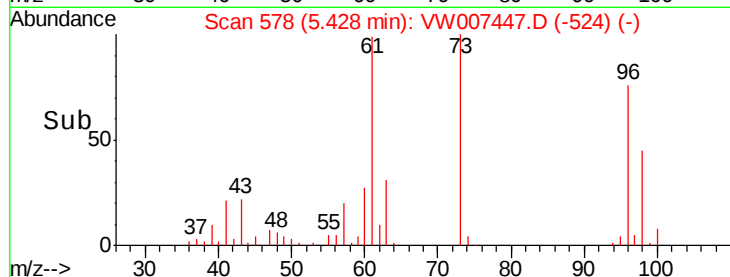
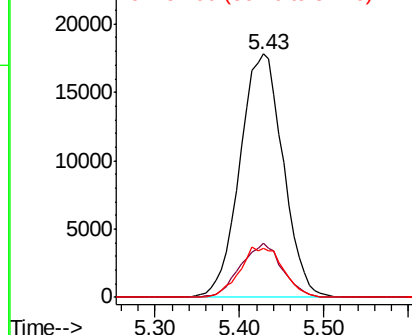
73 100

43 21.5 17.3 25.9

57 9.7 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: 26.702 ug/L

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

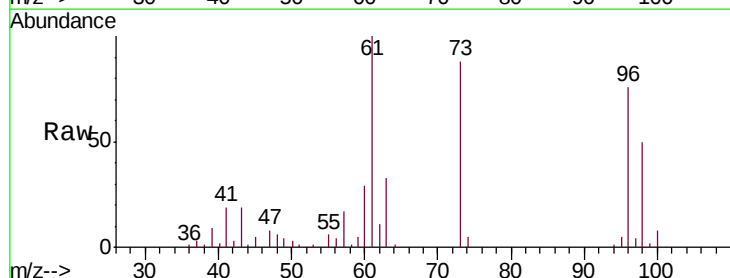
Tgt Ion: 96 Resp: 44755

Ion Ratio Lower Upper

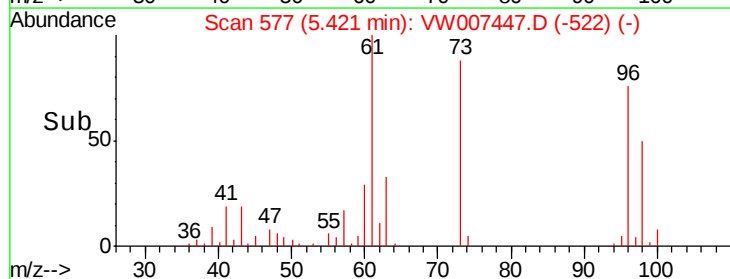
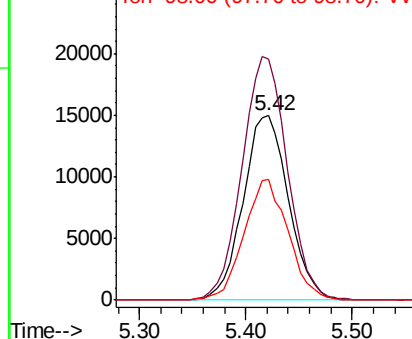
96 100

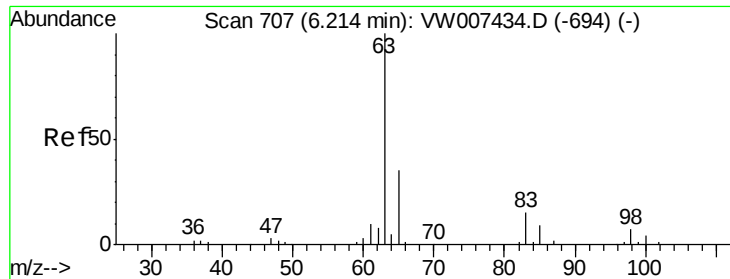
61 131.0 94.6 175.8

98 65.8 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

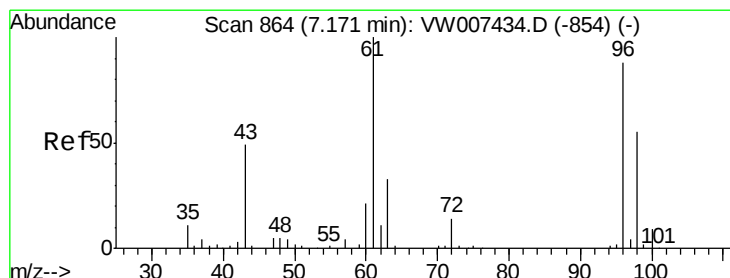
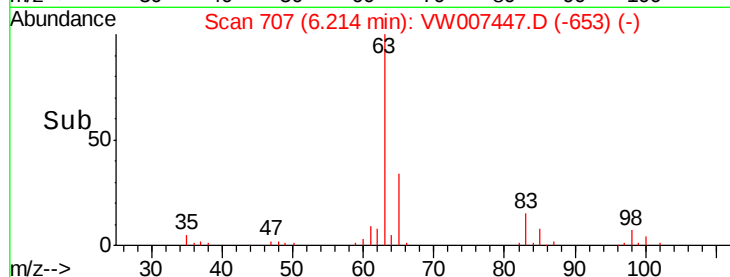
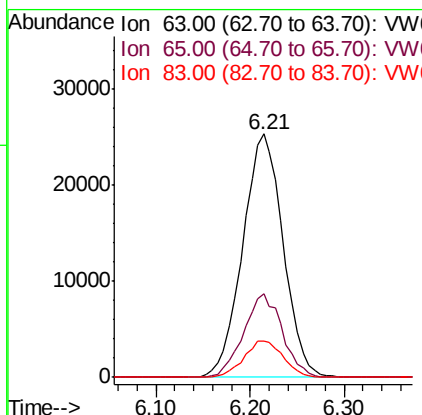
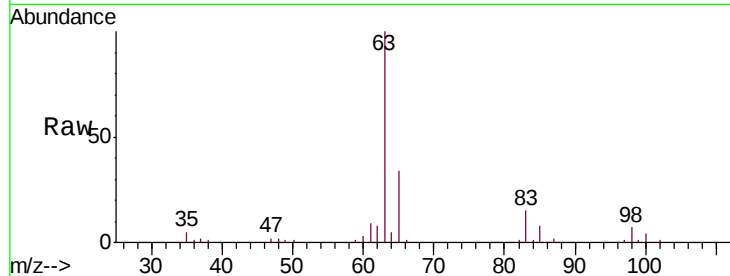




#19
 1,1-Dichloroethane
 Concen: 26.522 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VW007447.D
 Acq: 12 Dec 2018 17:10

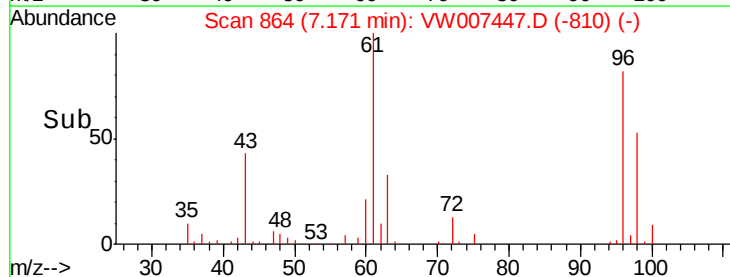
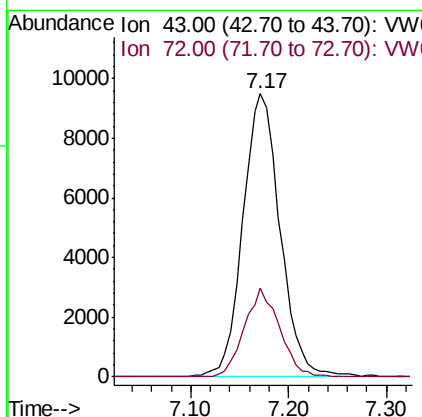
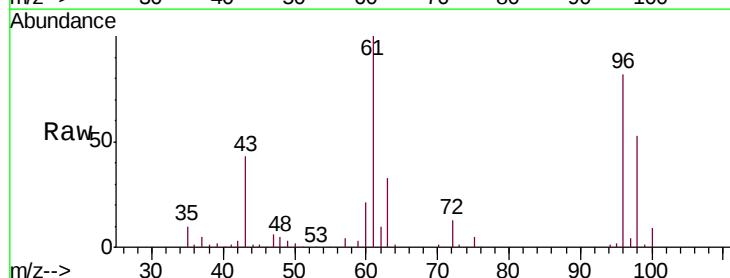
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02587

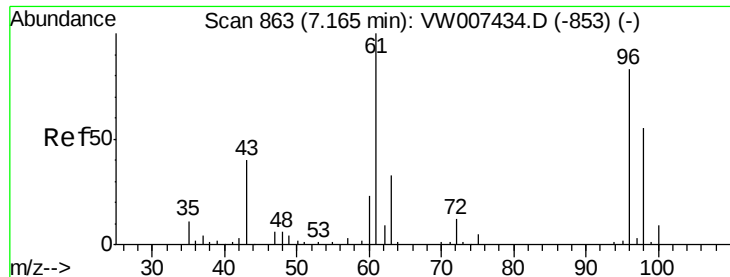
Tgt Ion: 63 Resp: 75772
 Ion Ratio Lower Upper
 63 100
 65 34.1 22.1 41.1
 83 14.9 9.8 18.2



#21
 2-Butanone
 Concen: 36.620 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VW007447.D
 Acq: 12 Dec 2018 17:10

Tgt Ion: 43 Resp: 24998
 Ion Ratio Lower Upper
 43 100
 72 29.5 14.7 44.1



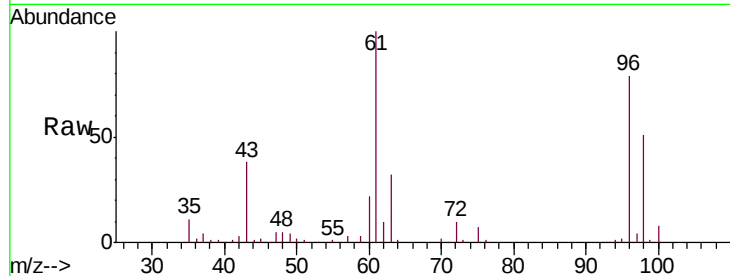


#22

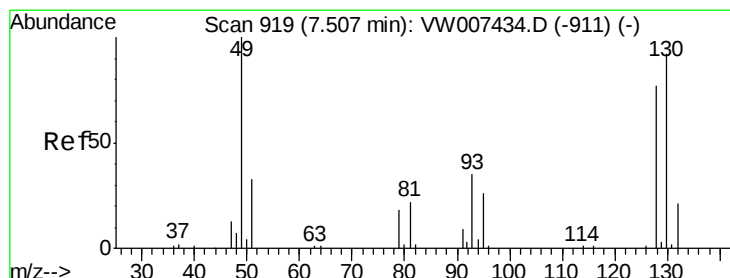
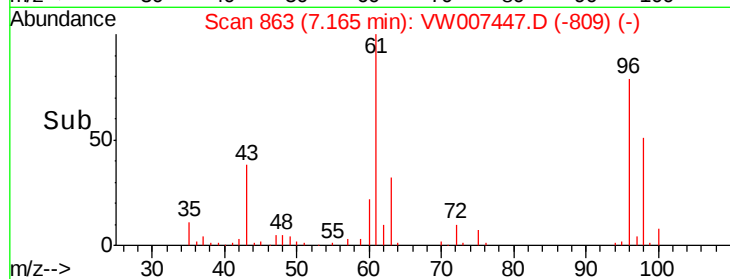
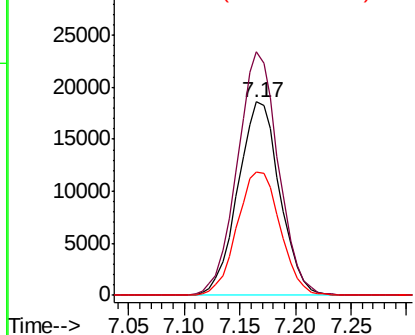
cis-1,2-Dichloroethene
 Concen: 26.416 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VW007447.D
 Acq: 12 Dec 2018 17:10

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02587

Tgt Ion: 96 Resp: 48722
 Ion Ratio Lower Upper
 96 100
 61 125.9 84.6 157.2
 98 63.7 42.9 79.7



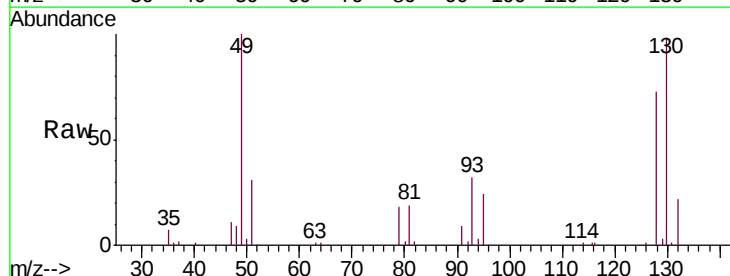
Abundance Ion 96.00 (95.70 to 96.70): VW
 Ion 61.00 (60.70 to 61.70): VW
 Ion 98.00 (97.70 to 98.70): VW



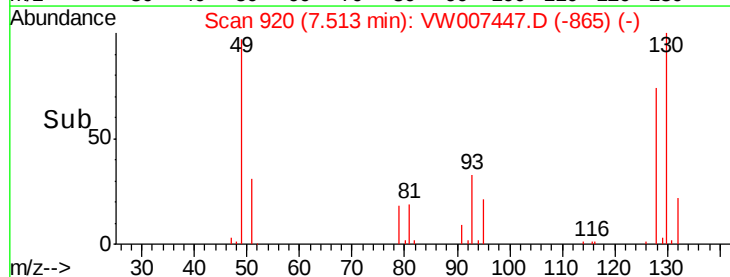
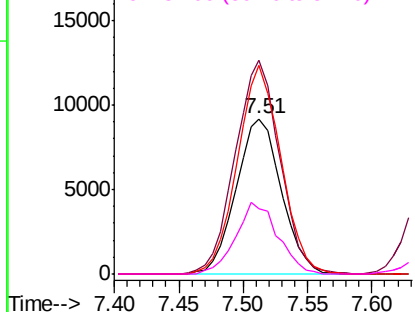
#23

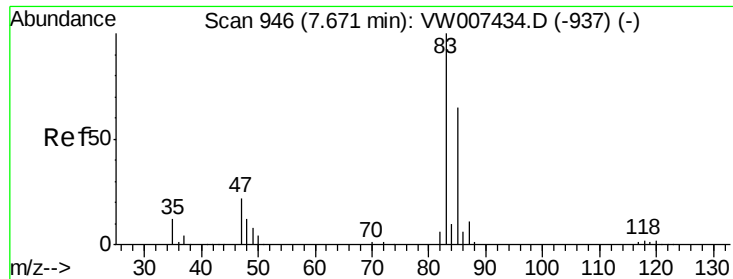
Bromochloromethane
 Concen: 26.629 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. 0.01 min
 Lab File: VW007447.D
 Acq: 12 Dec 2018 17:10

Tgt Ion: 128 Resp: 22390
 Ion Ratio Lower Upper
 128 100
 49 137.9 102.3 190.1
 130 134.4 88.0 163.4
 51 42.4 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

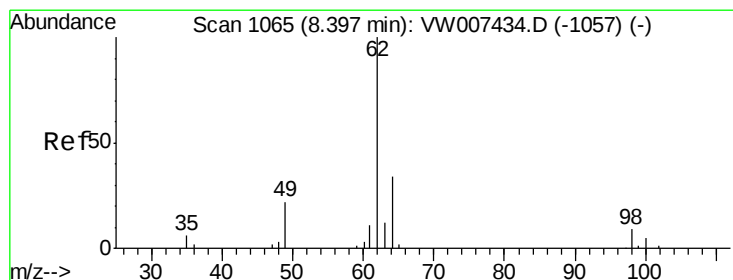
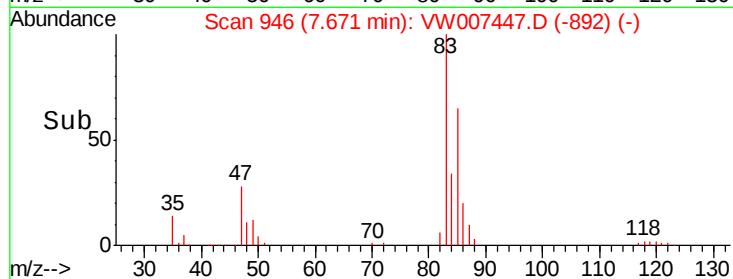
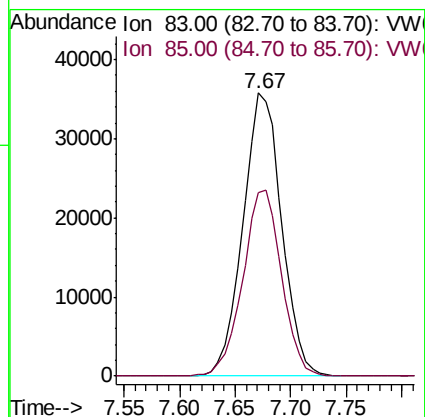
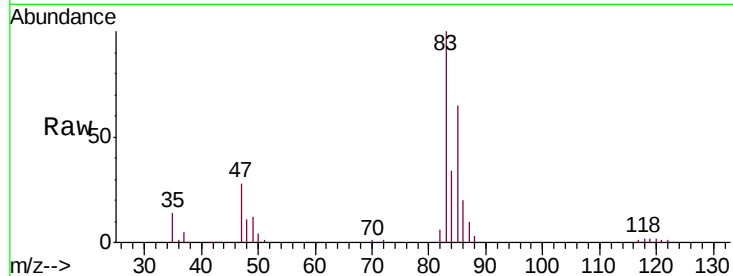




#25
Chloroform
Concen: 27.928 ug/L
RT: 7.67 min Scan# 946
Delta R.T. -0.00 min
Lab File: VW007447.D
Acq: 12 Dec 2018 17:10

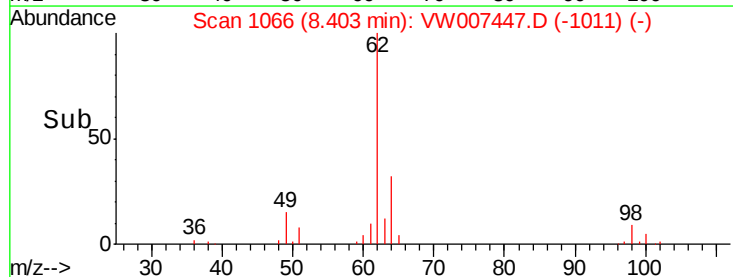
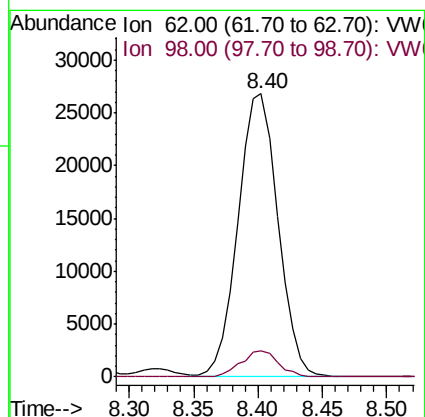
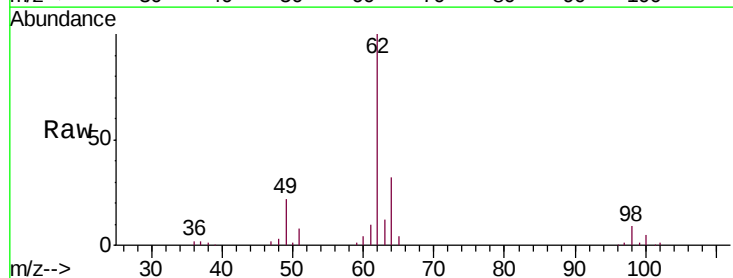
Instrument :
MSVOA_W
ClientSampleId :
VSTD02587

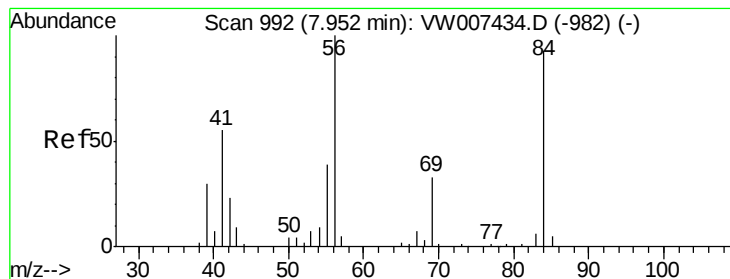
Tgt Ion: 83 Resp: 86332
Ion Ratio Lower Upper
83 100
85 65.9 46.0 85.4



#27
1,2-Dichloroethane
Concen: 26.100 ug/L
RT: 8.40 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VW007447.D
Acq: 12 Dec 2018 17:10

Tgt Ion: 62 Resp: 57675
Ion Ratio Lower Upper
62 100
98 9.4 6.9 10.3





#30

Cyclohexane

Concen: 23.379 ug/L

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02587

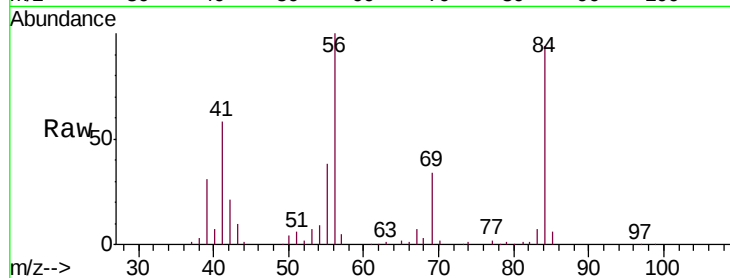
Tgt Ion: 56 Resp: 67572

Ion Ratio Lower Upper

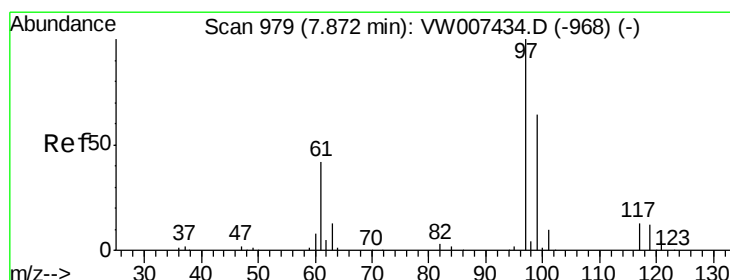
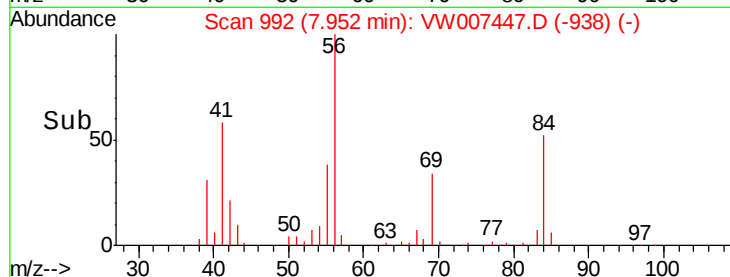
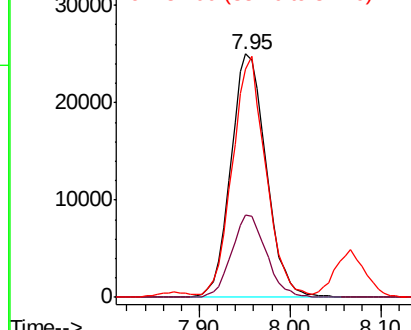
56 100

69 32.9 26.0 39.0

84 94.2 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: 26.785 ug/L

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

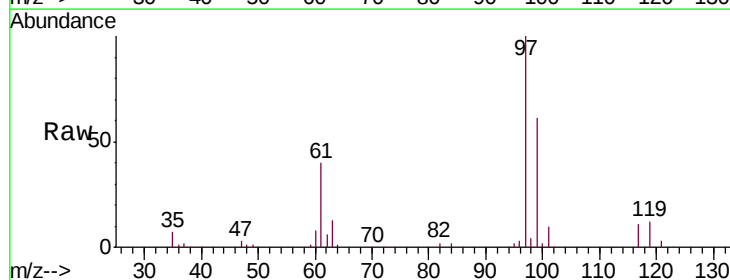
Tgt Ion: 97 Resp: 75949

Ion Ratio Lower Upper

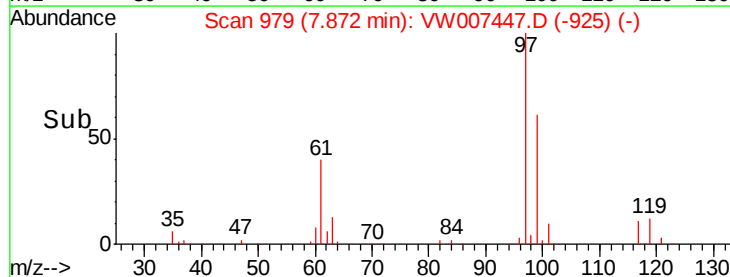
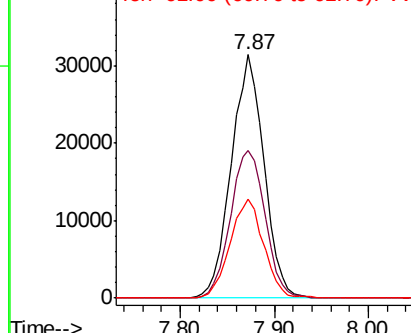
97 100

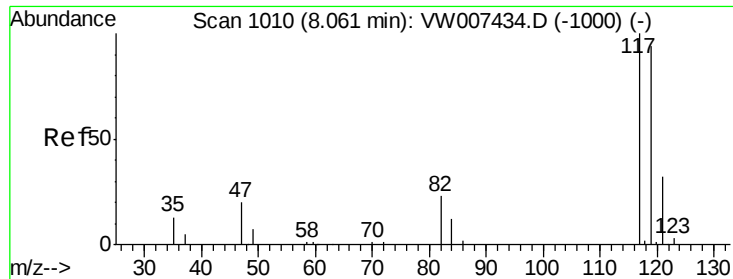
99 64.2 51.3 76.9

61 41.5 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: 27.012 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

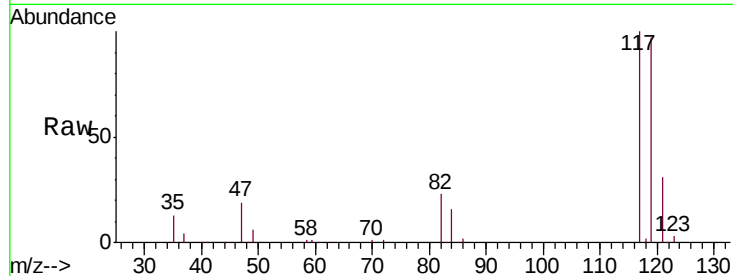
VSTD02587

Tgt Ion:117 Resp: 74017

Ion Ratio Lower Upper

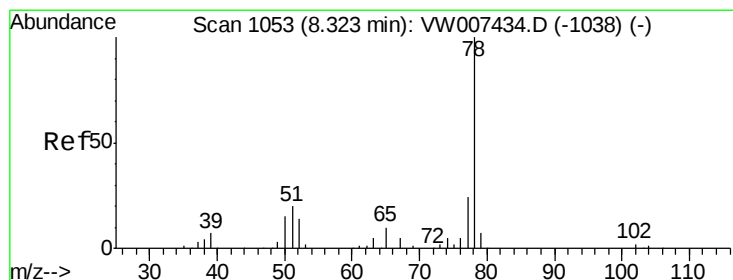
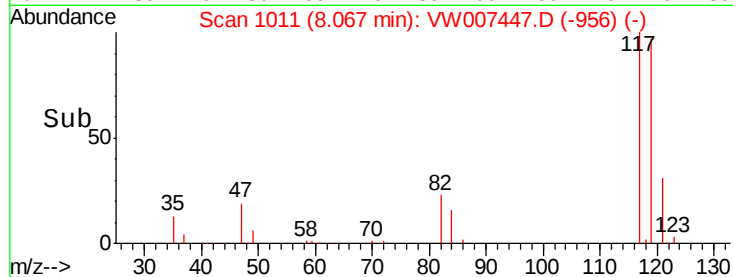
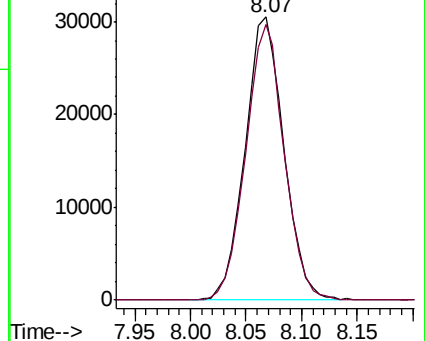
117 100

119 96.2 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: 25.543 ug/L

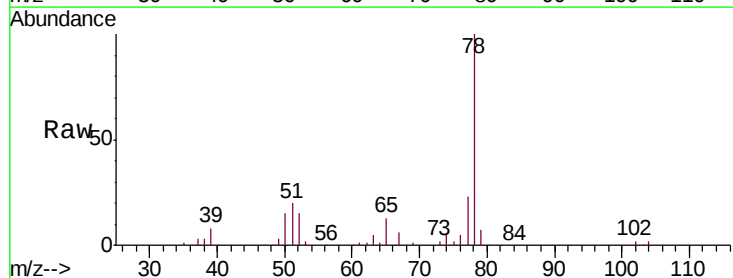
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

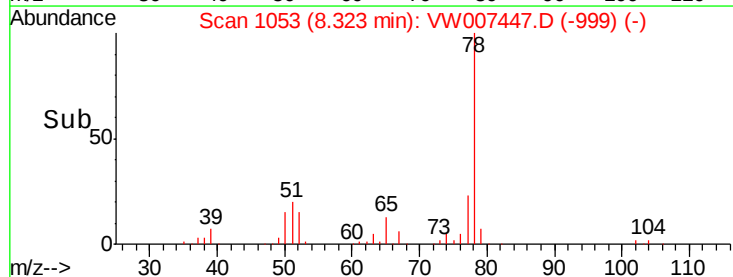
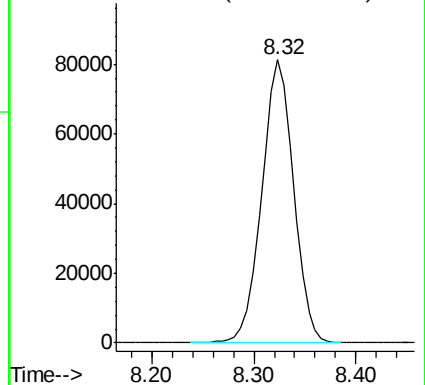
Lab File: VW007447.D

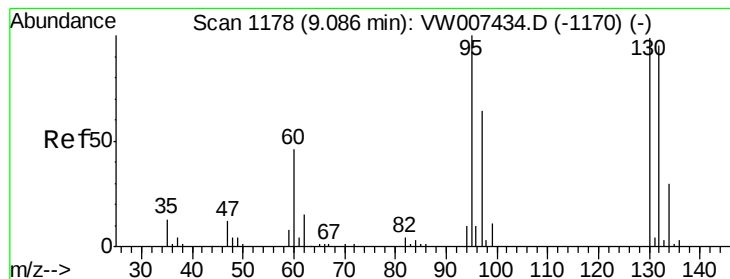
Acq: 12 Dec 2018 17:10

Tgt Ion: 78 Resp: 176388



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 24.795 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02587

Tgt Ion: 95 Resp: 49098

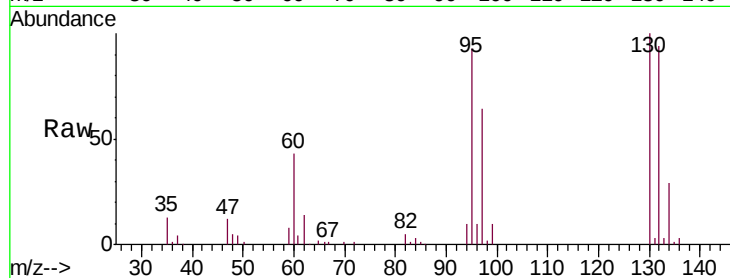
Ion Ratio Lower Upper

95 100

97 66.8 45.8 85.0

132 98.6 68.0 126.4

130 105.0 71.6 133.0



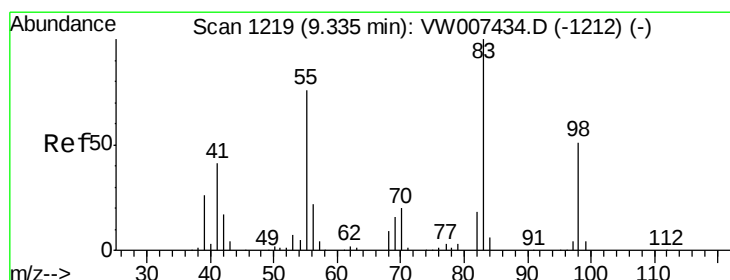
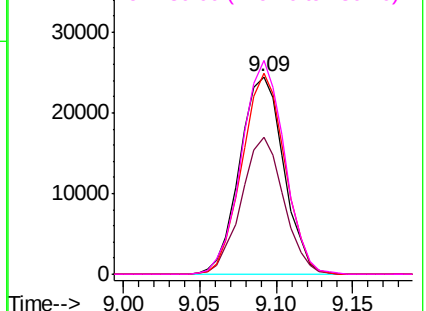
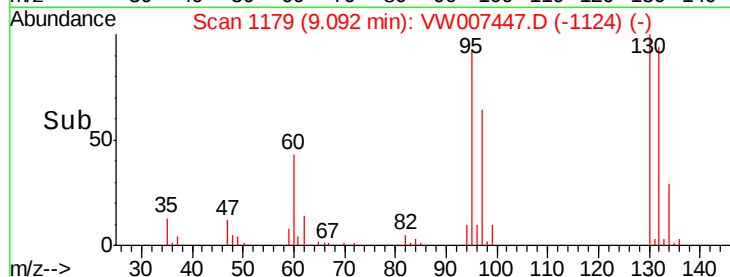
Abundance

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: 24.582 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

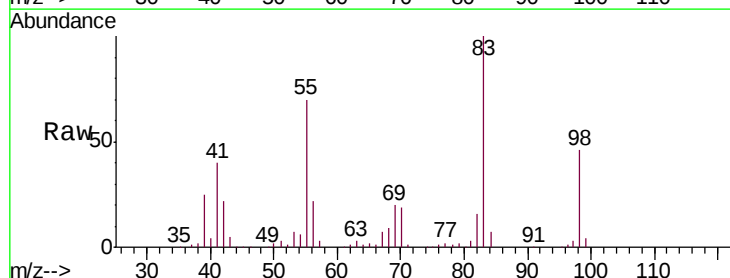
Tgt Ion: 83 Resp: 84031

Ion Ratio Lower Upper

83 100

55 71.6 59.4 89.2

98 48.2 38.1 57.1

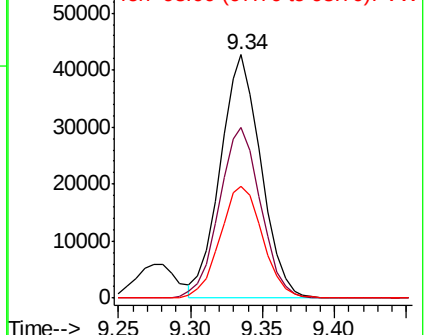
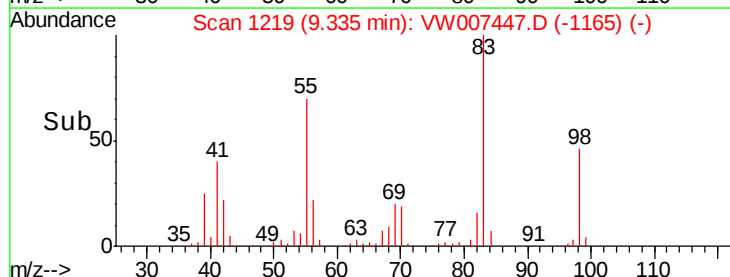


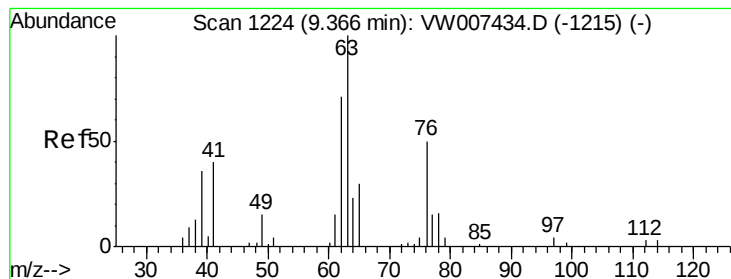
Abundance

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: 24.980 ug/L

RT: 9.37 min Scan# 1225

Delta R.T. 0.01 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

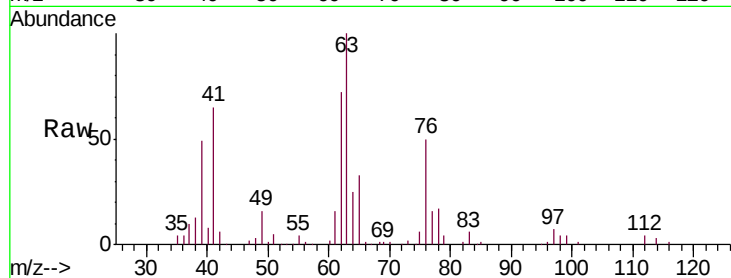
VSTD02587

Tgt Ion: 63 Resp: 42195

Ion Ratio Lower Upper

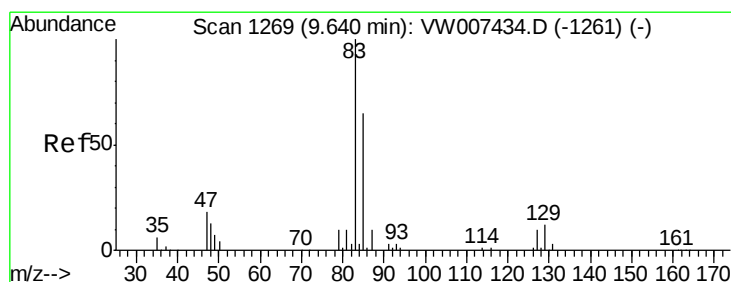
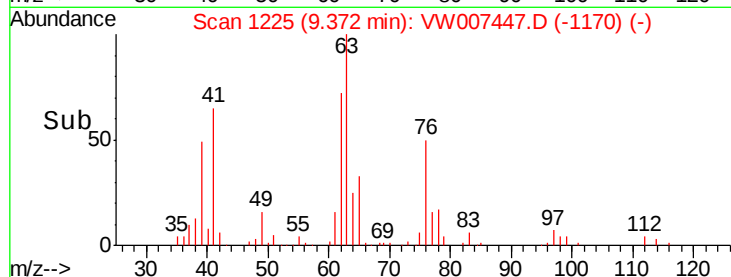
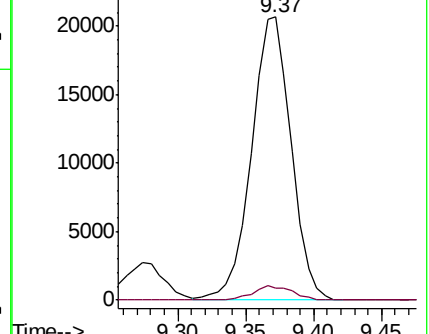
63 100

112 4.8 3.6 5.4



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 25.757 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

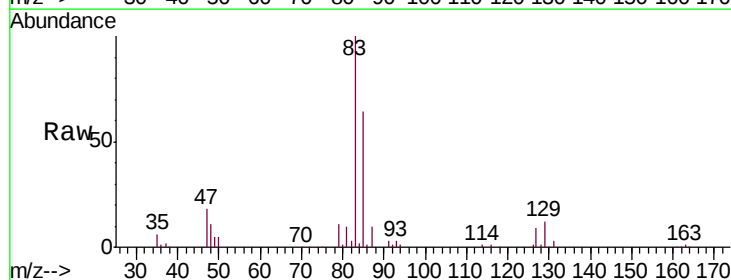
Tgt Ion: 83 Resp: 62472

Ion Ratio Lower Upper

83 100

85 63.9 44.9 83.5

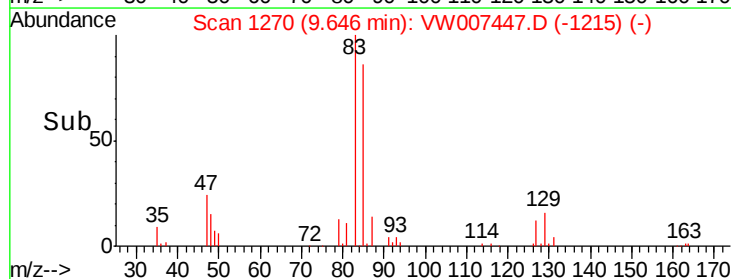
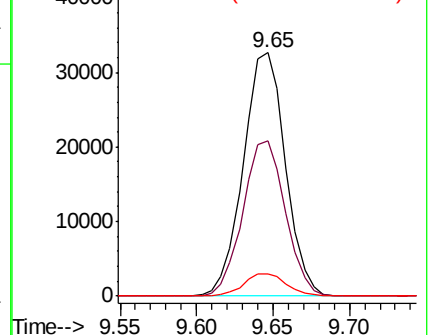
127 9.1 7.4 11.2

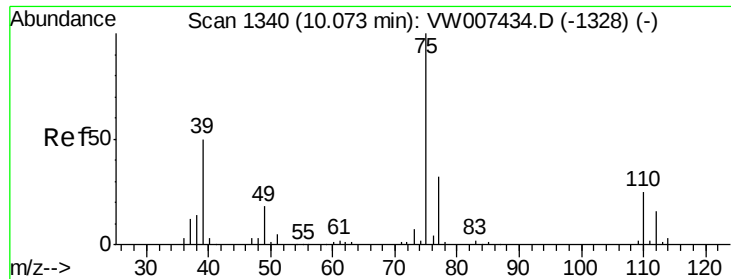


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V

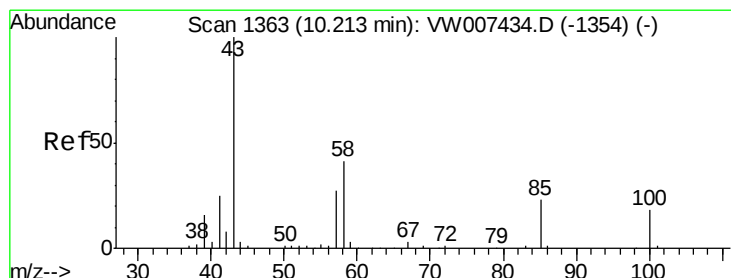
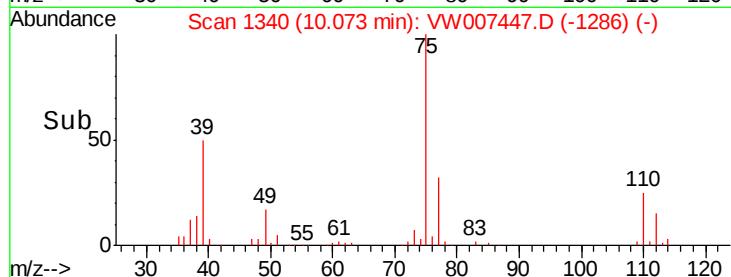
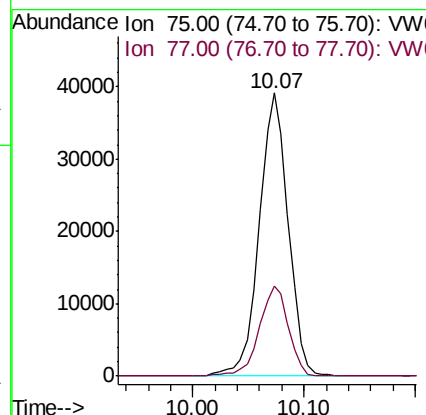
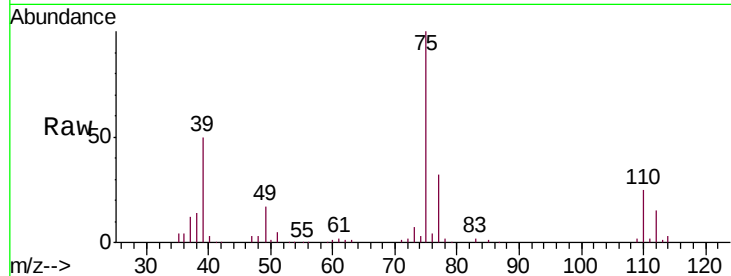




#42
 cis-1,3-Dichloropropene
 Concen: 25.011 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW007447.D
 Acq: 12 Dec 2018 17:10

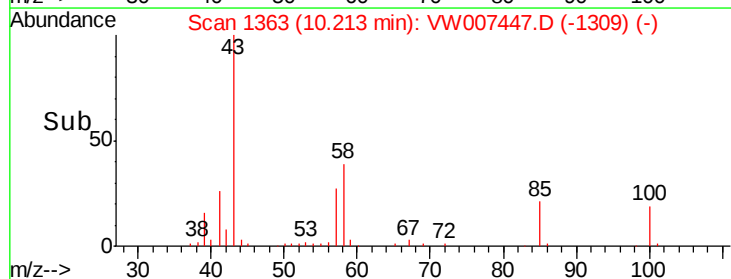
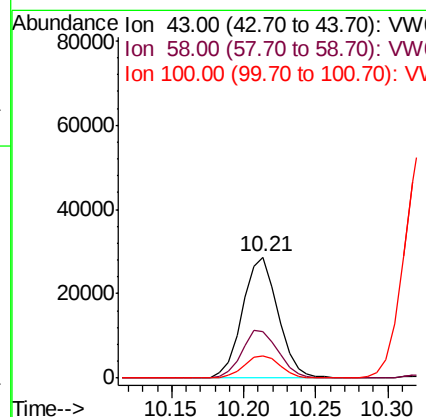
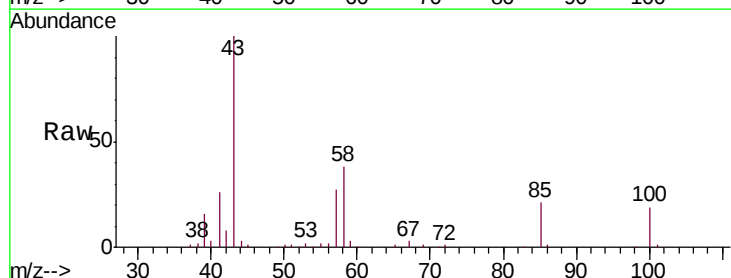
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02587

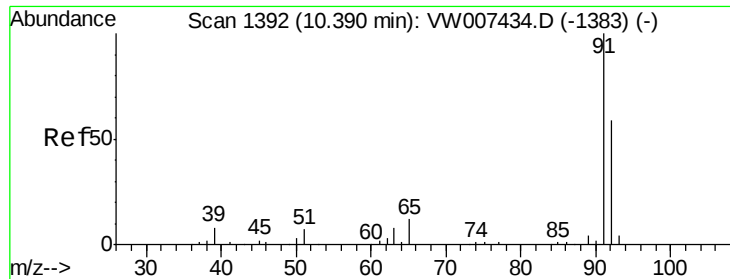
Tgt Ion: 75 Resp: 70951
 Ion Ratio Lower Upper
 75 100
 77 31.9 23.0 42.6



#43
 4-Methyl-2-pentanone
 Concen: 36.884 ug/L
 RT: 10.21 min Scan# 1363
 Delta R.T. -0.00 min
 Lab File: VW007447.D
 Acq: 12 Dec 2018 17:10

Tgt Ion: 43 Resp: 49315
 Ion Ratio Lower Upper
 43 100
 58 40.4 32.6 48.8
 100 18.8 13.8 20.8





#44

Toluene

Concen: 25.903 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

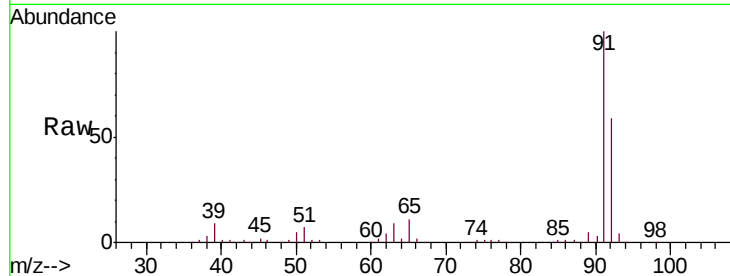
VSTD02587

Tgt Ion: 91 Resp: 192804

Ion Ratio Lower Upper

91 100

92 58.7 38.2 71.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

10.39

120000

100000

80000

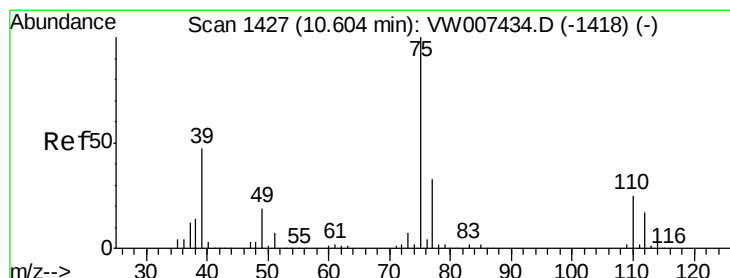
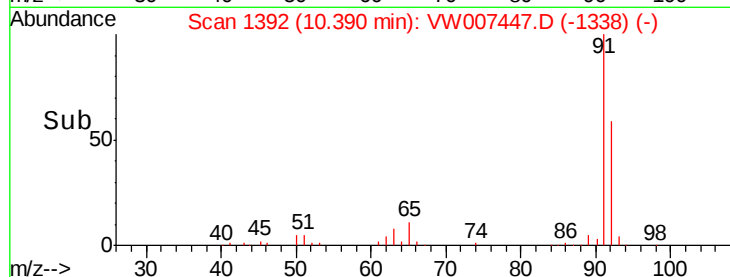
60000

40000

20000

0

Time--> 10.30 10.35 10.40 10.45



#45

trans-1,3-Dichloropropene

Concen: 24.876 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.01 min

Lab File: VW007447.D

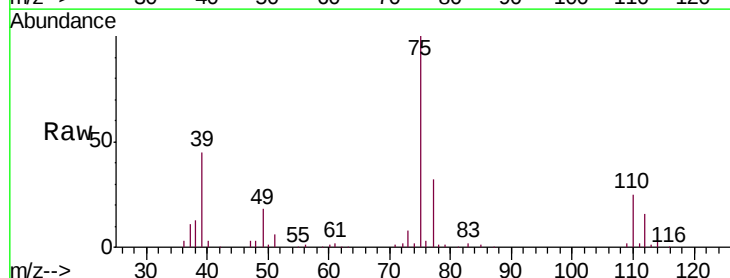
Acq: 12 Dec 2018 17:10

Tgt Ion: 75 Resp: 61973

Ion Ratio Lower Upper

75 100

77 31.8 22.6 42.0



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.61

40000

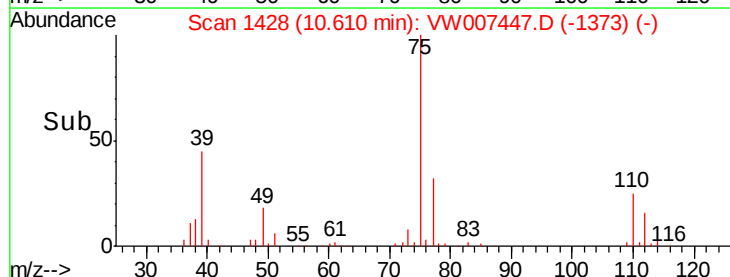
30000

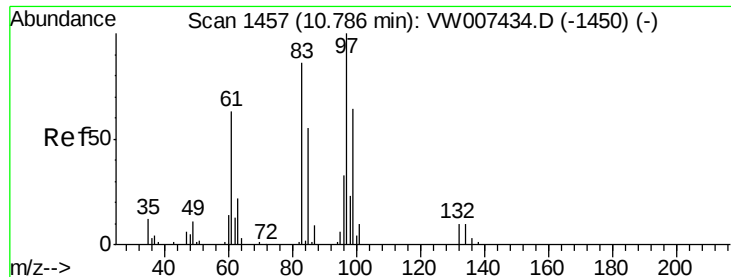
20000

10000

0

Time--> 10.50 10.60 10.70





#46

1,1,2-Trichloroethane

Concen: 24.591 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02587

Tgt Ion: 97 Resp: 34204

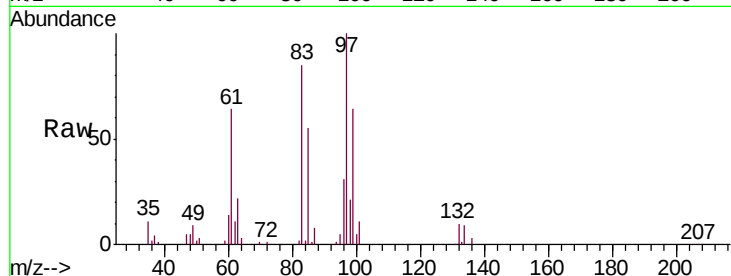
Ion Ratio Lower Upper

97 100

83 84.8 61.2 113.8

85 54.7 42.5 78.9

99 64.2 45.7 84.9



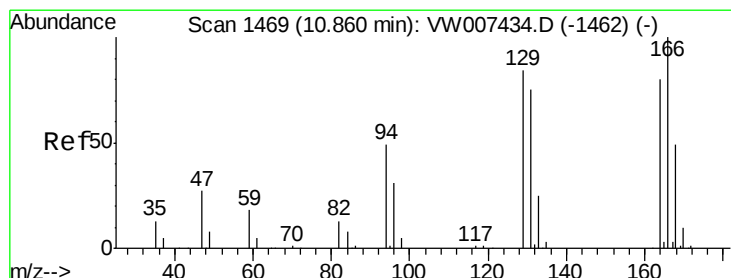
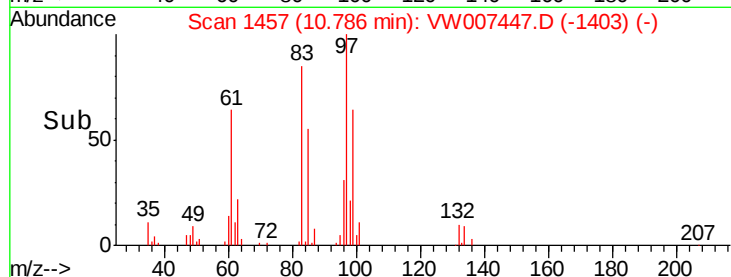
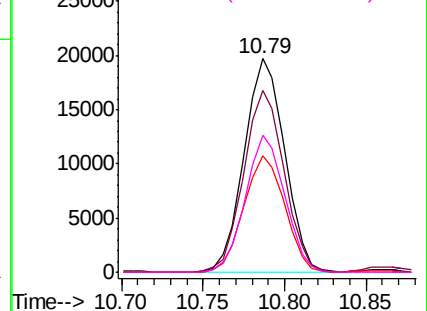
Abundance

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: 26.784 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

Tgt Ion: 164 Resp: 40063

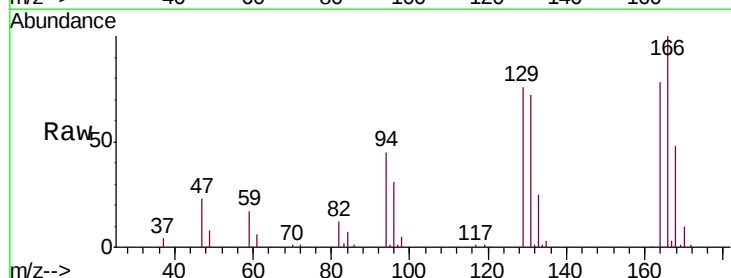
Ion Ratio Lower Upper

164 100

129 97.1 70.8 131.6

131 91.5 70.4 130.8

166 127.6 84.2 156.4



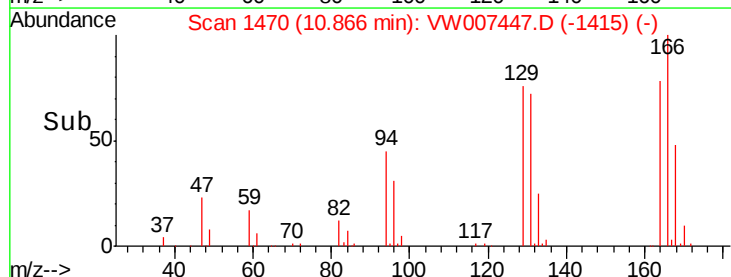
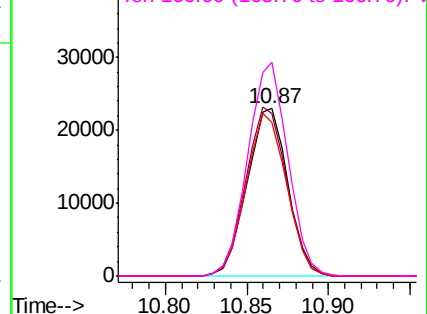
Abundance

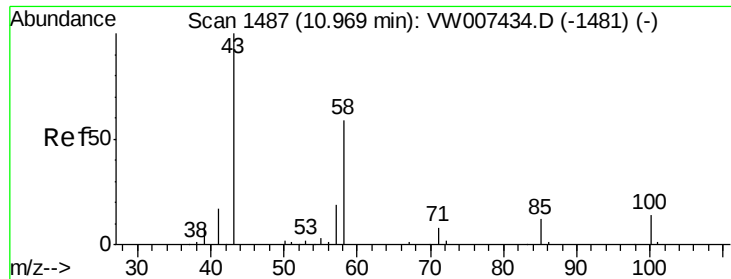
Ion 164.00 (163.70 to 164.70): V

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

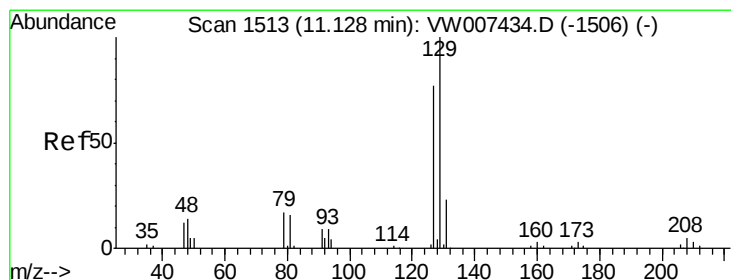
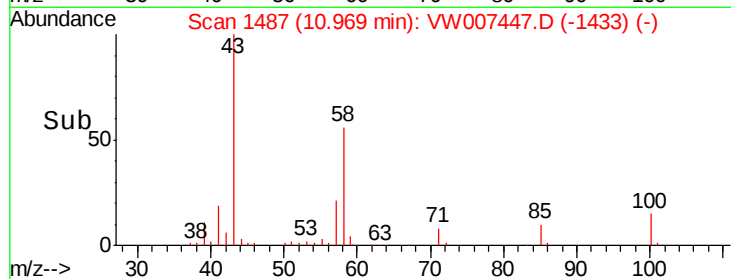
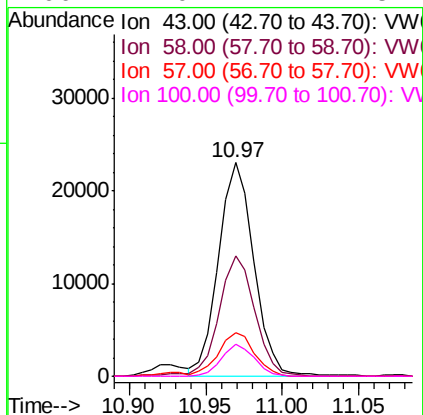
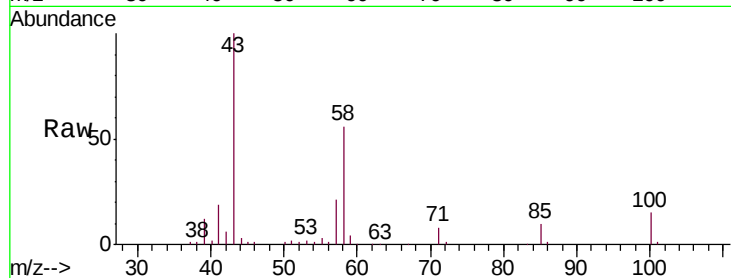




#49
2-Hexanone
Concen: 39.378 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW007447.D
Acq: 12 Dec 2018 17:10

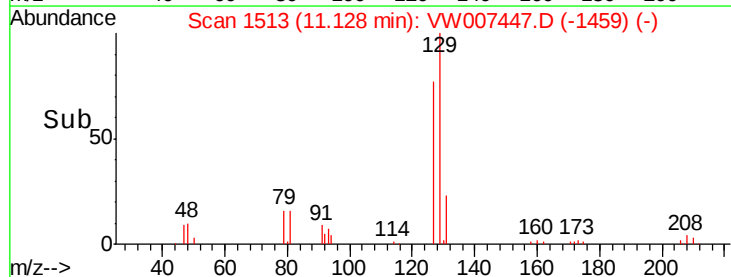
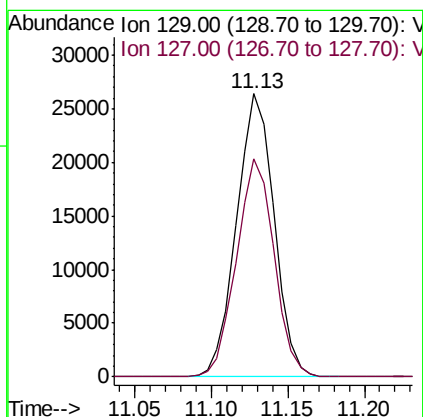
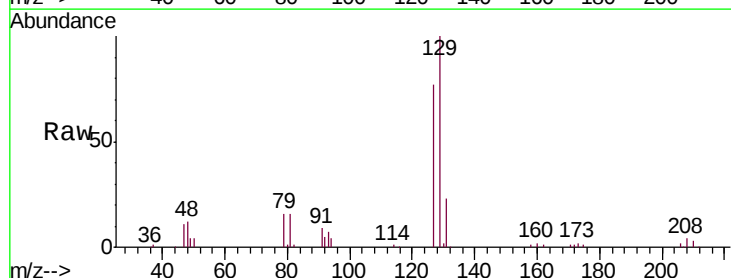
Instrument :
MSVOA_W
ClientSampleId :
VSTD02587

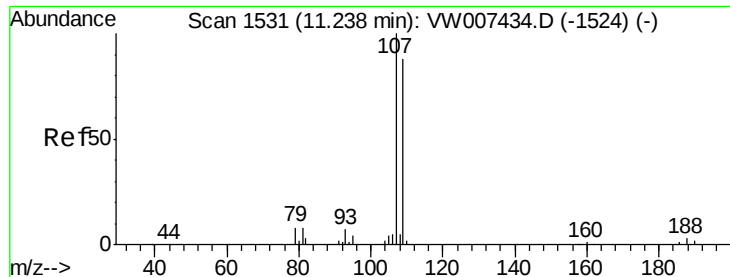
Tgt Ion: 43 Resp: 37003
Ion Ratio Lower Upper
43 100
58 56.3 47.2 70.8
57 20.6 17.6 26.4
100 14.0 12.2 18.2



#50
Dibromochloromethane
Concen: 26.410 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW007447.D
Acq: 12 Dec 2018 17:10

Tgt Ion: 129 Resp: 45128
Ion Ratio Lower Upper
129 100
127 77.0 53.8 100.0

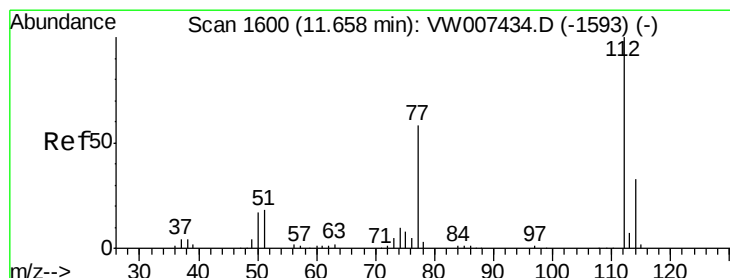
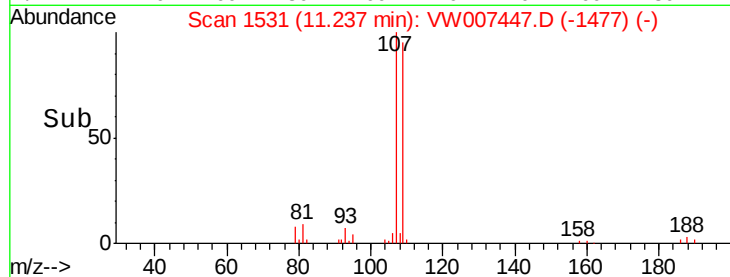
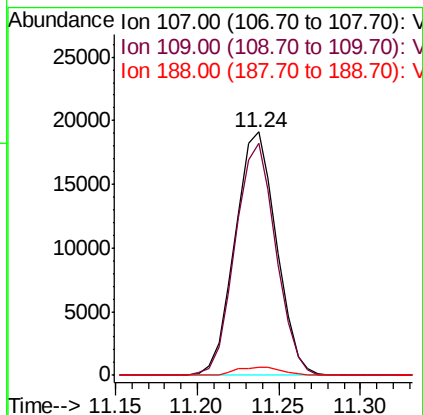
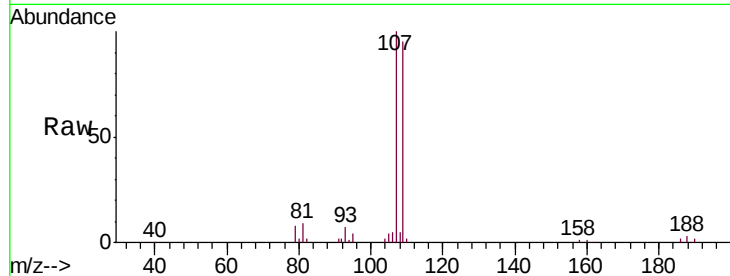




#51
 1,2-Dibromoethane
 Concen: 24.162 ug/L
 RT: 11.24 min Scan# 1531
 Delta R.T. -0.00 min
 Lab File: VW007447.D
 Acq: 12 Dec 2018 17:10

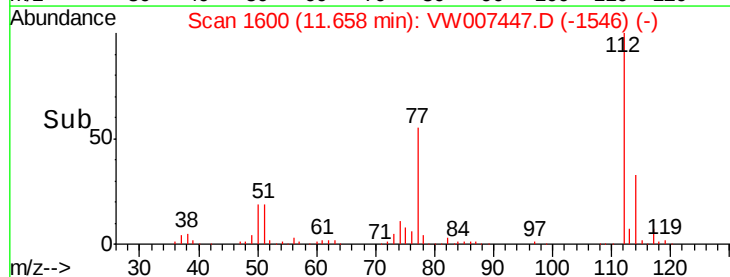
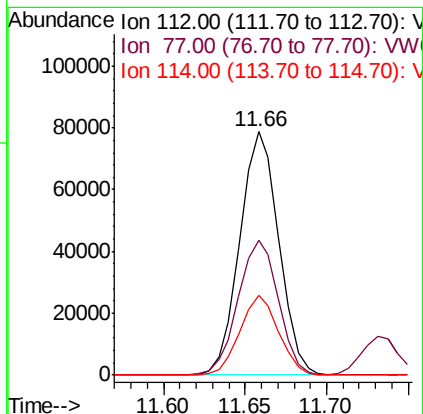
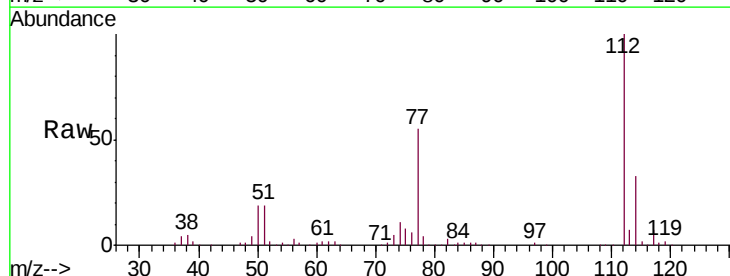
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02587

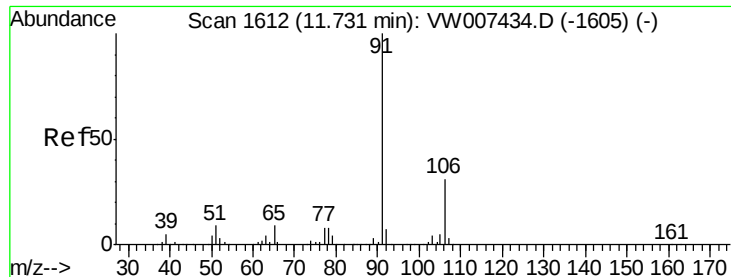
Tgt Ion:107 Resp: 33752
 Ion Ratio Lower Upper
 107 100
 109 95.4 67.6 125.6
 188 3.2 2.6 4.0



#52
 Chlorobenzene
 Concen: 27.113 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. -0.00 min
 Lab File: VW007447.D
 Acq: 12 Dec 2018 17:10

Tgt Ion:112 Resp: 130975
 Ion Ratio Lower Upper
 112 100
 77 55.2 42.6 63.8
 114 32.5 23.0 42.8





#53

Ethylbenzene

Concen: 27.268 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

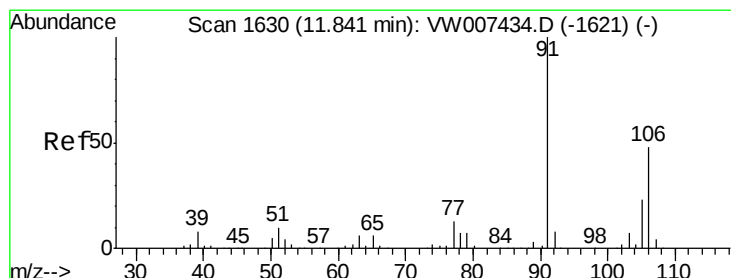
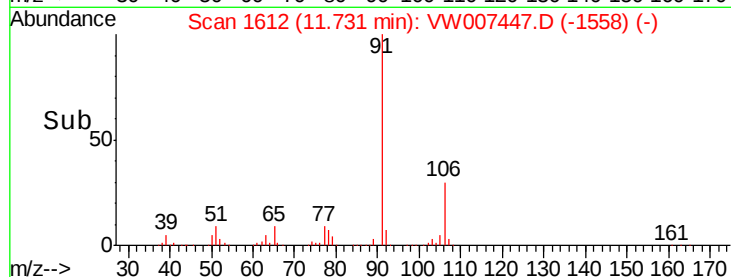
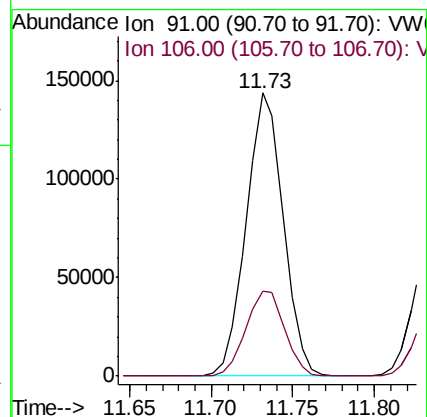
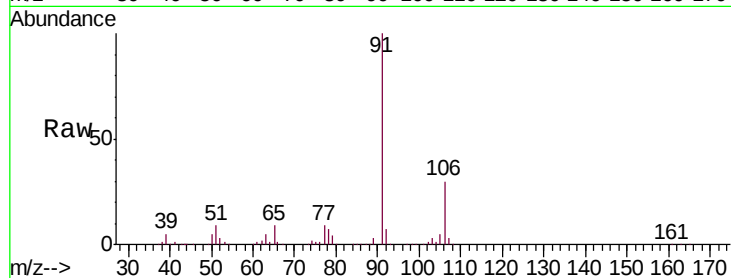
VSTD02587

Tgt Ion: 91 Resp: 228222

Ion Ratio Lower Upper

91 100

106 29.8 20.2 37.4



#54

m,p-Xylene

Concen: 27.545 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW007447.D

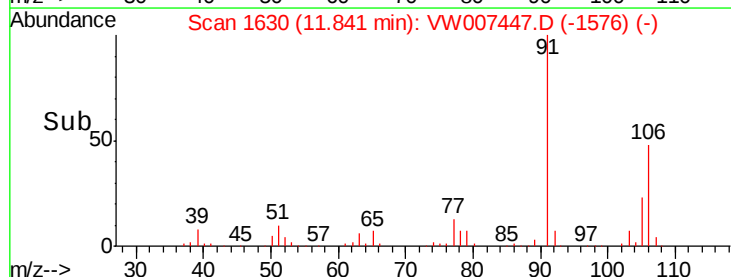
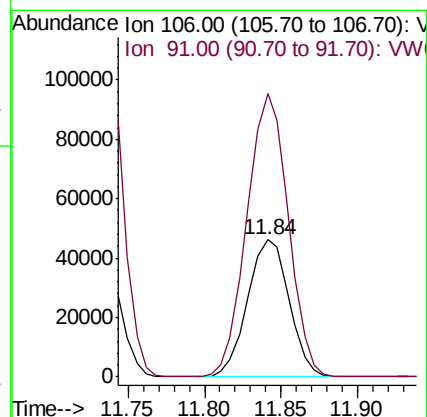
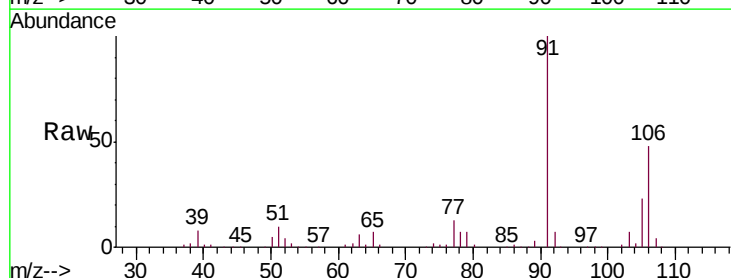
Acq: 12 Dec 2018 17:10

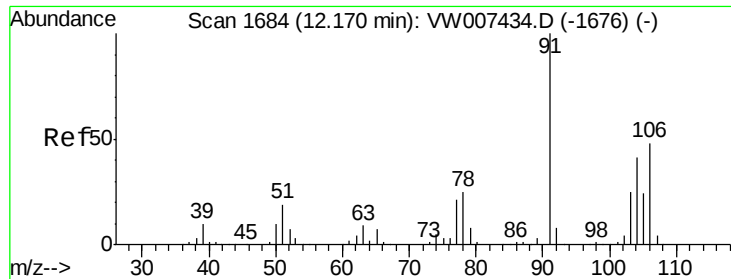
Tgt Ion: 106 Resp: 87573

Ion Ratio Lower Upper

106 100

91 206.4 132.2 245.6

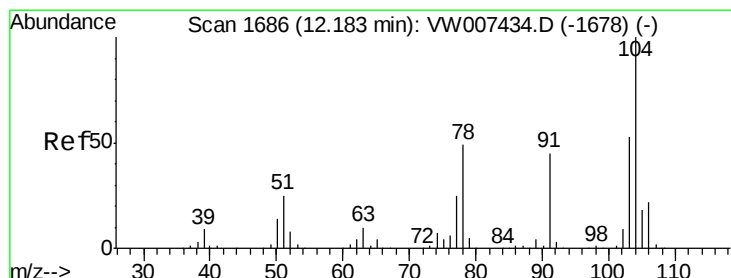
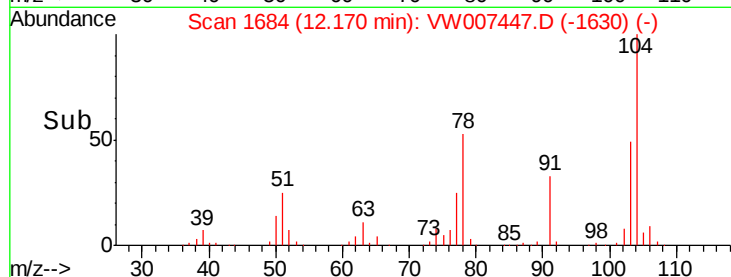
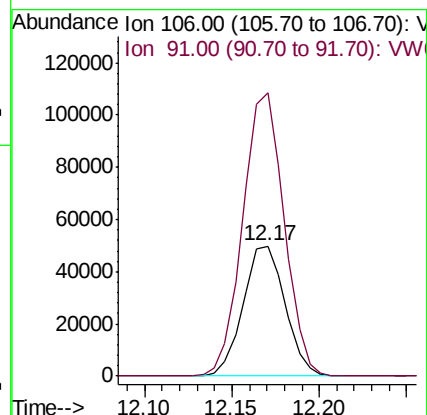
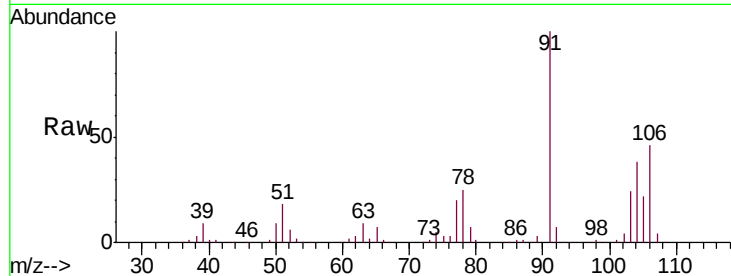




#55
o-xylene
Concen: 27.724 ug/L
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW007447.D
Acq: 12 Dec 2018 17:10

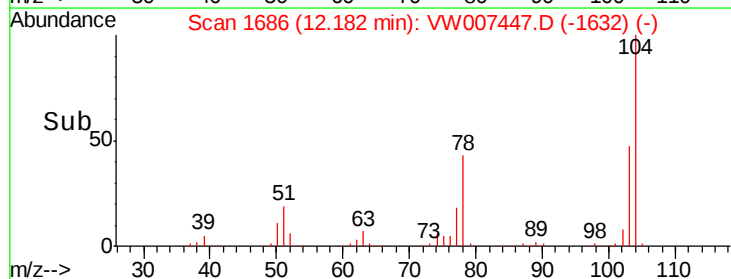
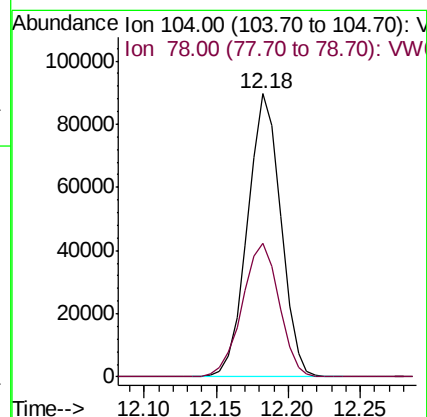
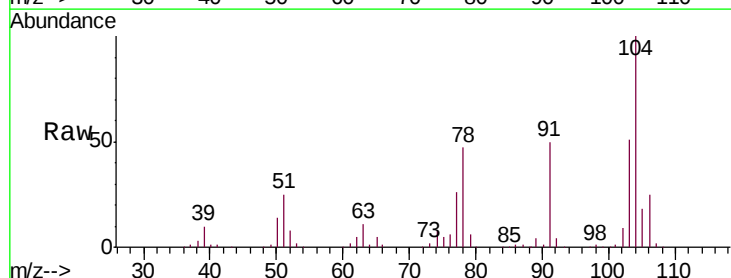
Instrument :
MSVOA_W
ClientSampleId :
VSTD02587

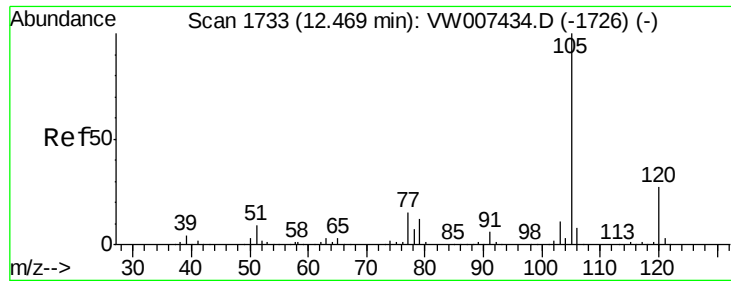
Tgt Ion:106 Resp: 83300
Ion Ratio Lower Upper
106 100
91 217.7 147.0 273.0



#56
Styrene
Concen: 27.799 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW007447.D
Acq: 12 Dec 2018 17:10

Tgt Ion:104 Resp: 143174
Ion Ratio Lower Upper
104 100
78 47.0 31.8 59.0





#57

Isopropylbenzene

Concen: 28.028 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02587

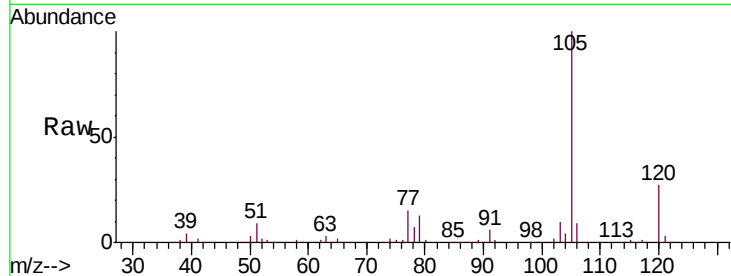
Tgt Ion: 105 Resp: 235031

Ion Ratio Lower Upper

105 100

120 25.8 20.6 30.8

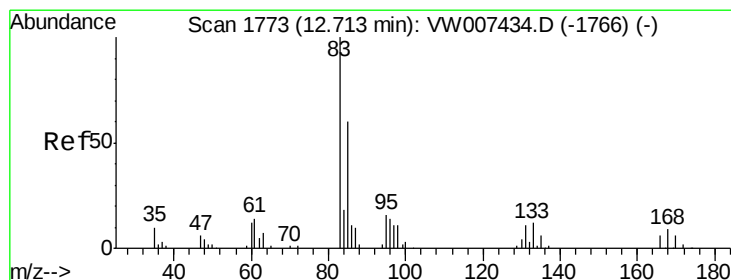
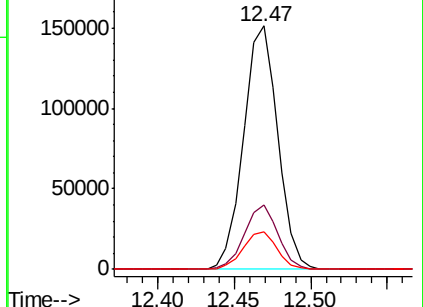
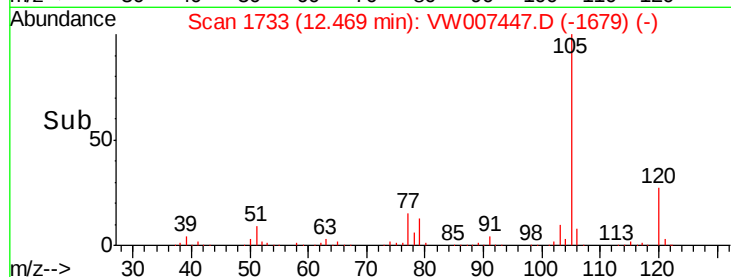
77 15.4 12.2 18.2



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: 22.930 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. 0.01 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

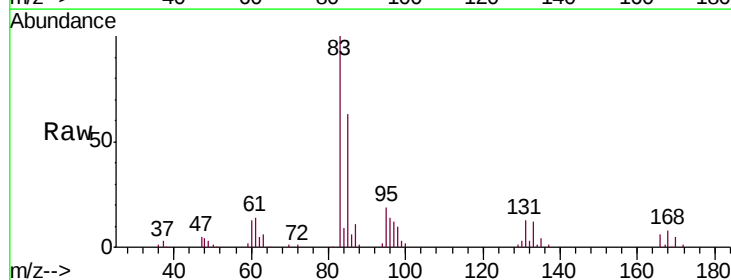
Tgt Ion: 83 Resp: 39537

Ion Ratio Lower Upper

83 100

85 62.5 46.2 85.8

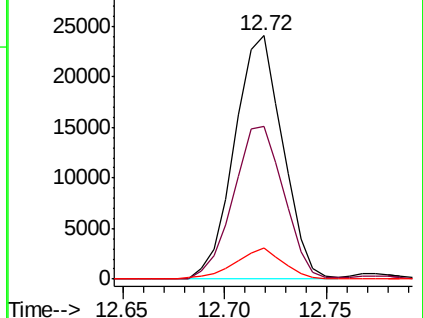
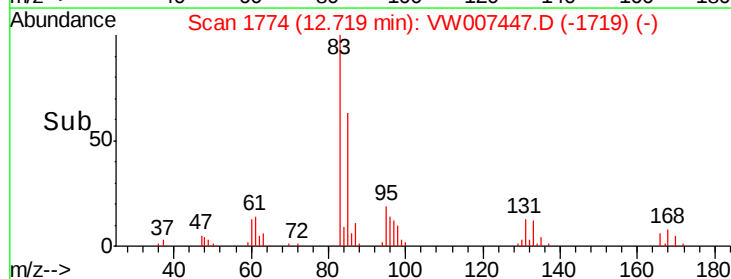
131 12.6 7.8 11.6#

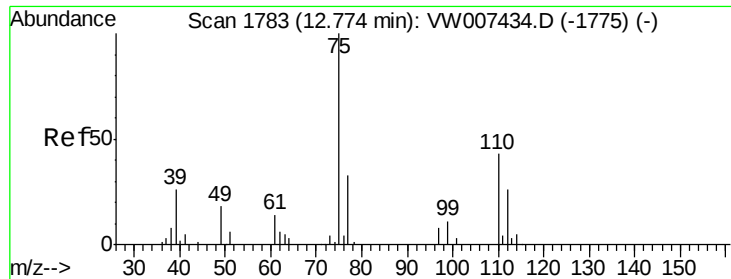


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 22.535 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.01 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

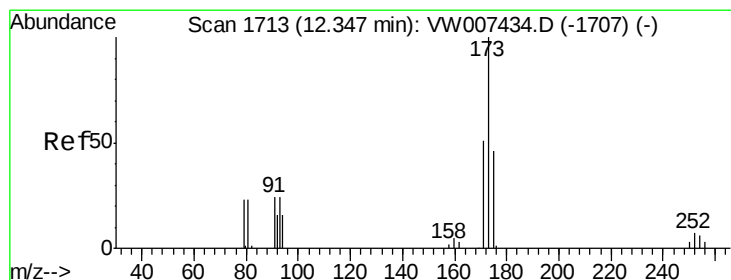
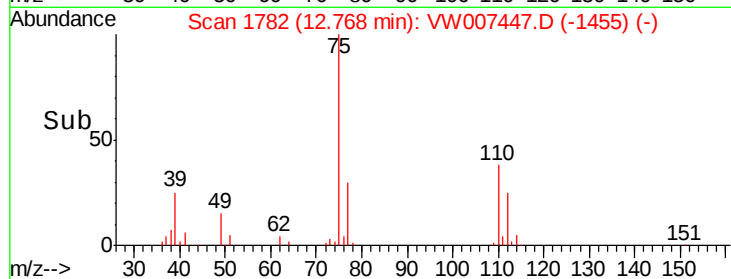
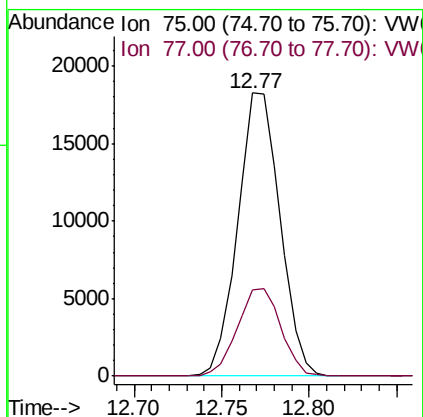
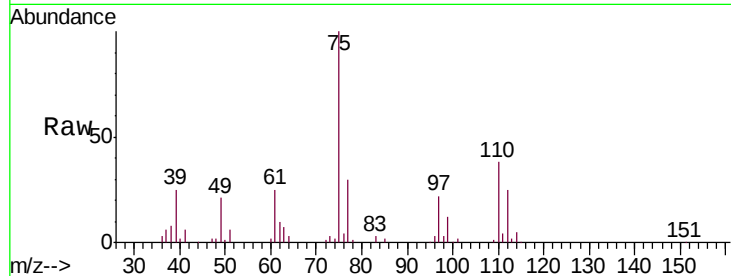
VSTD02587

Tgt Ion: 75 Resp: 30757

Ion Ratio Lower Upper

75 100

77 31.7 26.5 39.7



#62

Bromoform

Concen: 23.740 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.01 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

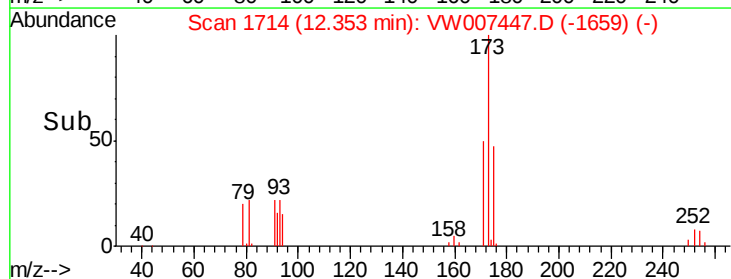
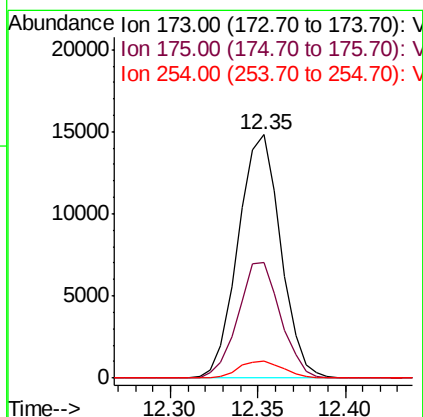
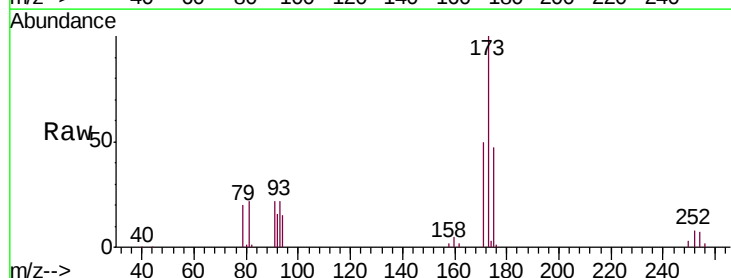
Tgt Ion: 173 Resp: 25079

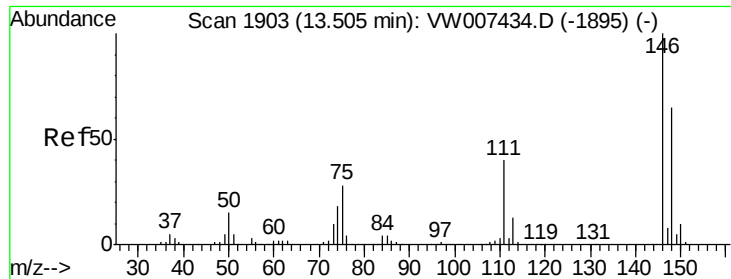
Ion Ratio Lower Upper

173 100

175 47.6 38.6 58.0

254 7.5 6.4 9.6

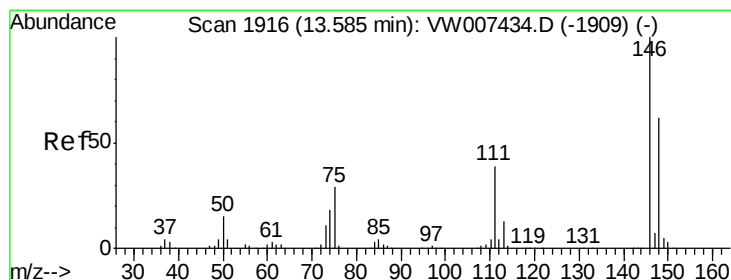
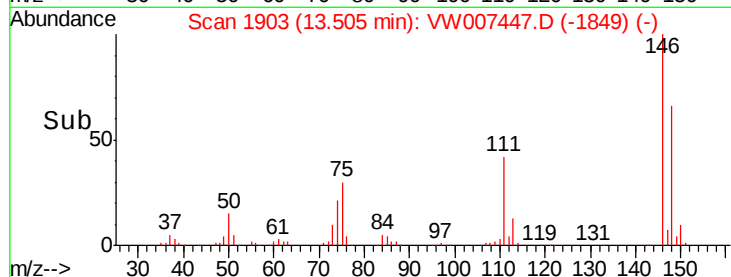
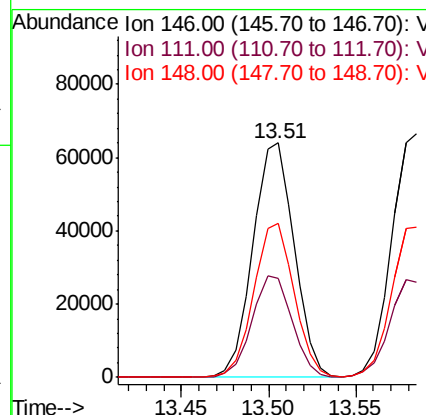
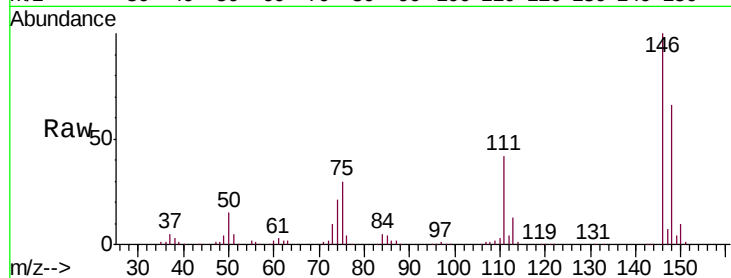




#63
 1,3-Dichlorobenzene
 Concen: 26.529 ug/L
 RT: 13.51 min Scan# 1903
 Delta R.T. -0.00 min
 Lab File: VW007447.D
 Acq: 12 Dec 2018 17:10

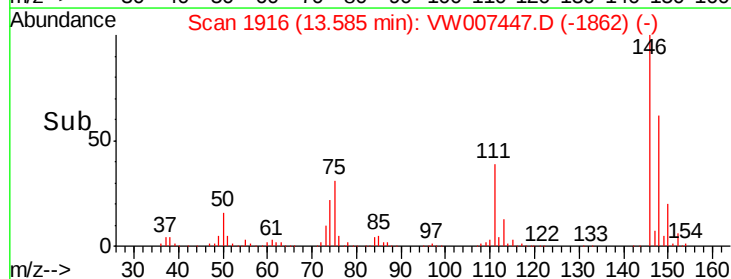
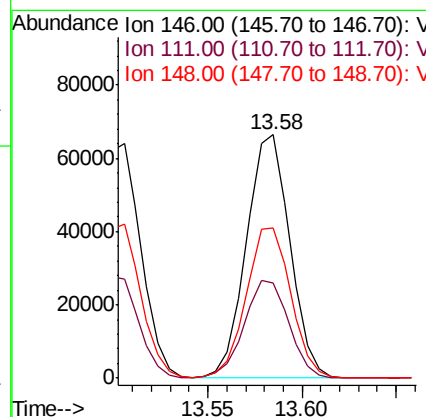
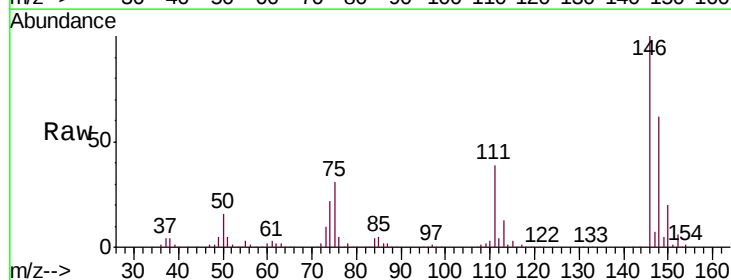
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02587

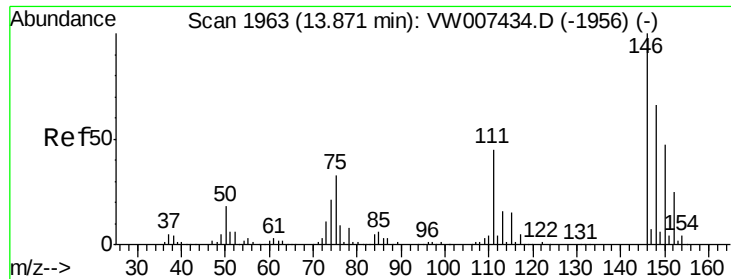
Tgt Ion:146 Resp: 105134
 Ion Ratio Lower Upper
 146 100
 111 42.2 31.0 57.6
 148 66.0 44.7 83.1



#64
 1,4-Dichlorobenzene
 Concen: 26.864 ug/L
 RT: 13.58 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VW007447.D
 Acq: 12 Dec 2018 17:10

Tgt Ion:146 Resp: 106130
 Ion Ratio Lower Upper
 146 100
 111 39.3 24.8 46.0
 148 61.8 38.7 71.9





#65

1,2-Dichlorobenzene

Concen: 27.881 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02587

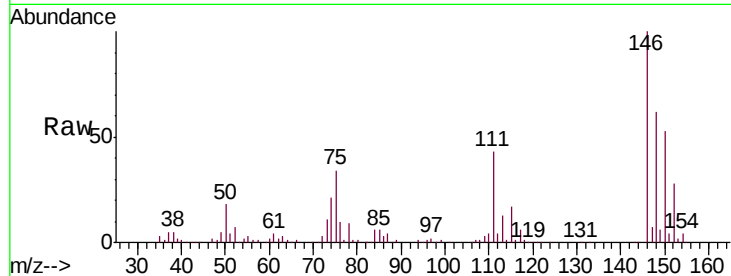
Tgt Ion:146 Resp: 98883

Ion Ratio Lower Upper

146 100

111 42.8 39.3 58.9

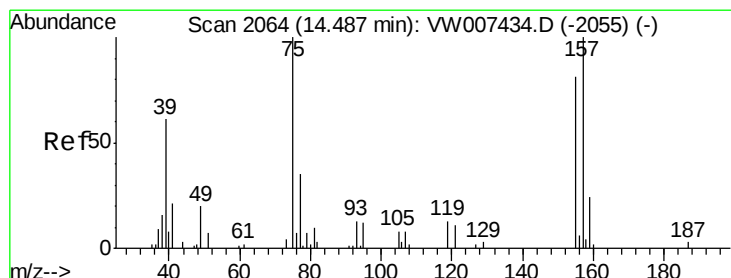
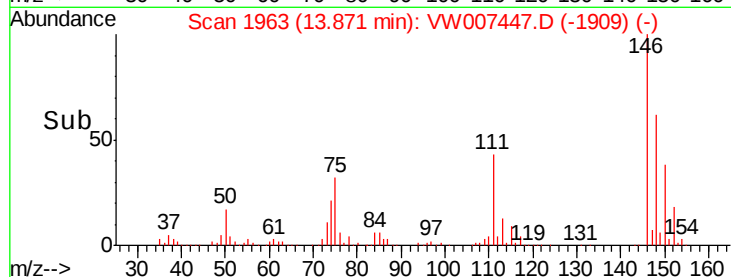
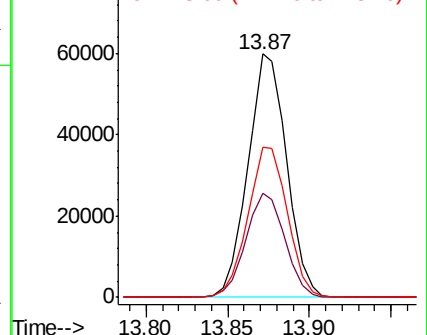
148 61.6 51.8 77.8



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: 20.290 ug/L

RT: 14.49 min Scan# 2065

Delta R.T. 0.01 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

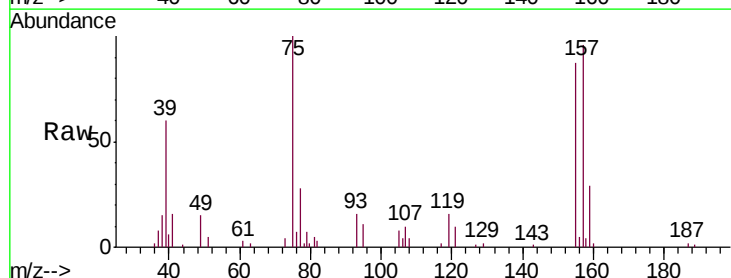
Tgt Ion: 75 Resp: 7622

Ion Ratio Lower Upper

75 100

157 95.7 86.0 129.0

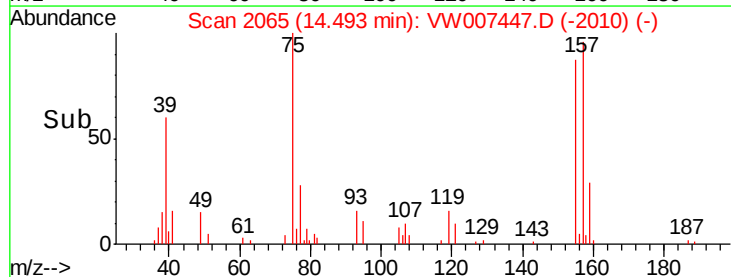
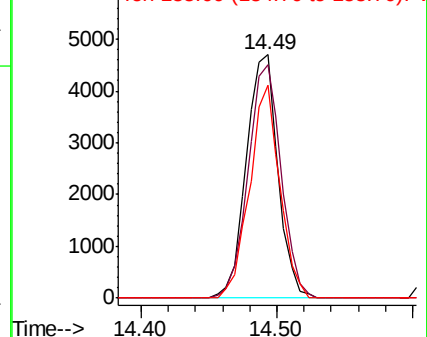
155 87.2 64.9 97.3

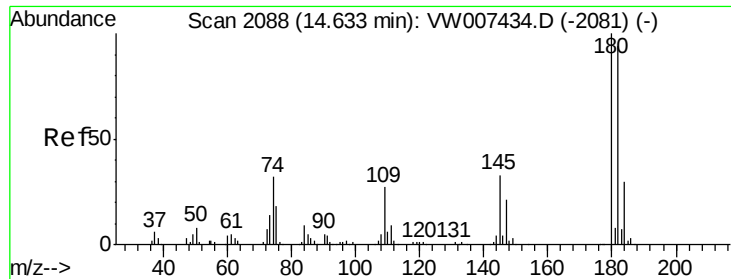


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

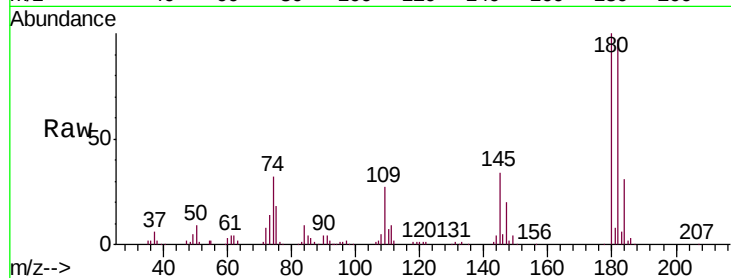




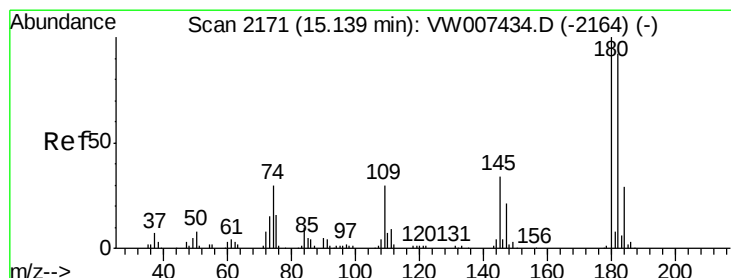
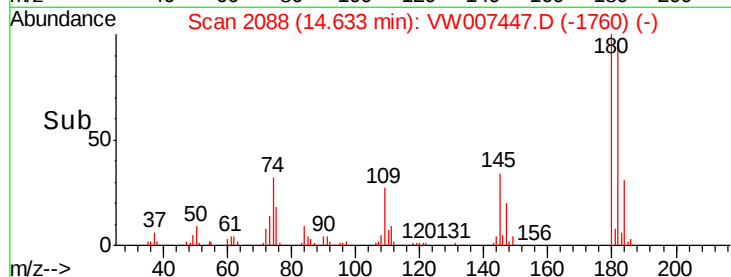
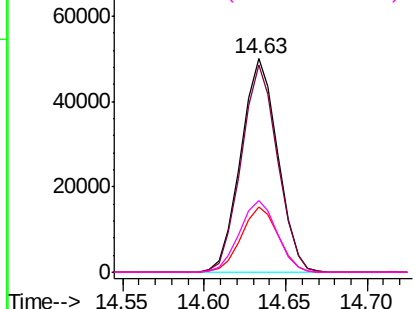
#67
 1,3,5-Trichlorobenzene
 Concen: 27.501 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. -0.00 min
 Lab File: VW007447.D
 Acq: 12 Dec 2018 17:10

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02587

Tgt Ion:180 Resp: 78948
 Ion Ratio Lower Upper
 180 100
 182 95.4 74.6 111.8
 184 30.4 24.7 37.1
 145 34.0 27.2 40.8

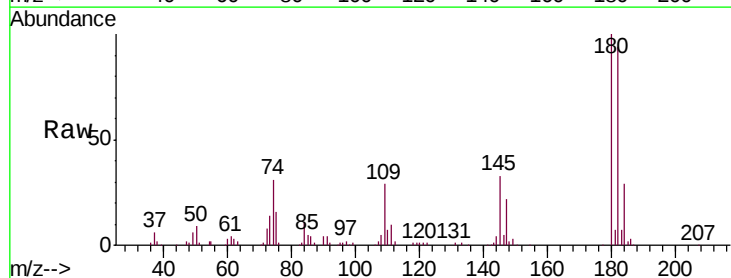


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

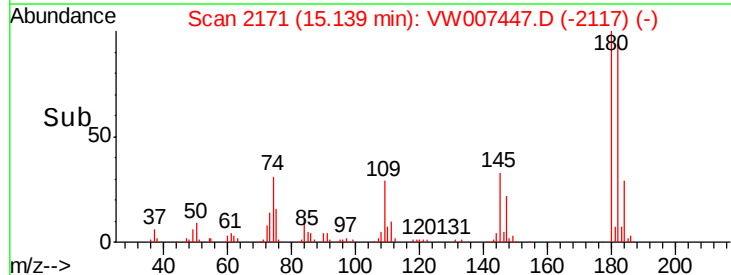
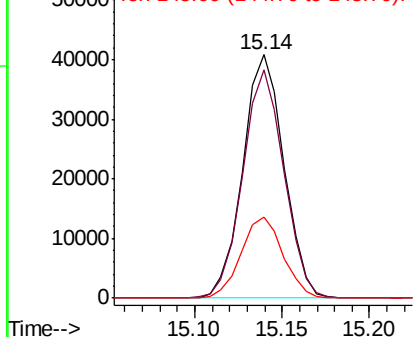


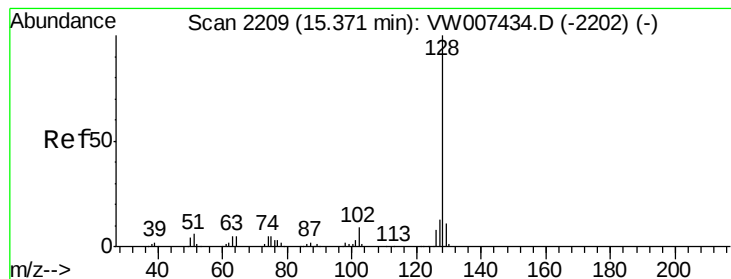
#68
 1,2,4-trichlorobenzene
 Concen: 26.981 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VW007447.D
 Acq: 12 Dec 2018 17:10

Tgt Ion:180 Resp: 66777
 Ion Ratio Lower Upper
 180 100
 182 93.7 77.4 116.2
 145 33.8 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: 22.441 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

Instrument :

MSVOA_W

ClientSampleId :

VSTD02587

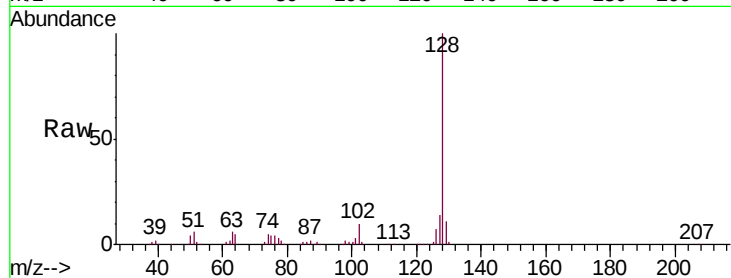
Tgt Ion:128 Resp: 137285

Ion Ratio Lower Upper

128 100

129 11.3 8.8 13.2

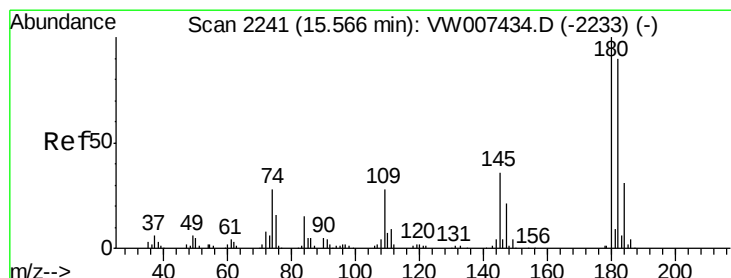
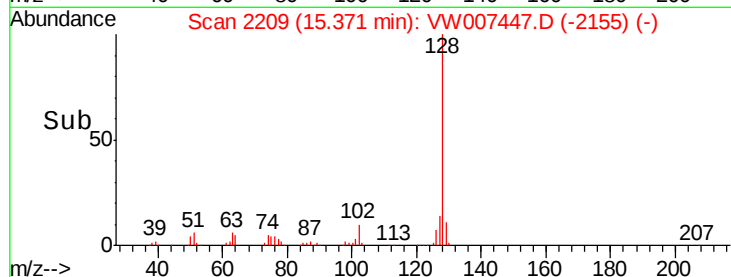
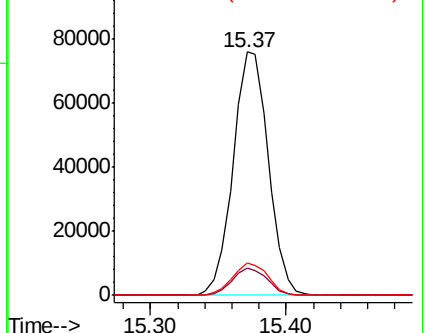
127 13.3 10.7 16.1



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: 26.497 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.01 min

Lab File: VW007447.D

Acq: 12 Dec 2018 17:10

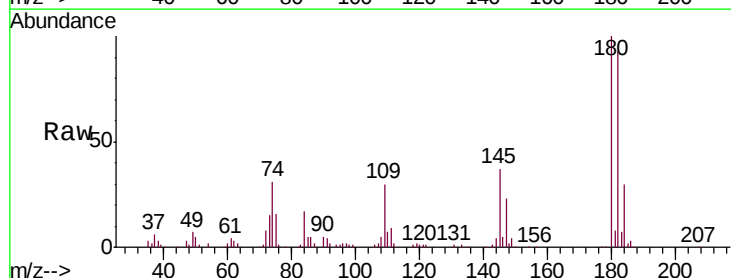
Tgt Ion:180 Resp: 59619

Ion Ratio Lower Upper

180 100

182 94.9 76.2 114.4

145 36.6 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

