

Data File : VW011296.D
Acq On : 16 Jul 2019 19:47
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02509

Quant Time: Jul 17 07:25:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070219S.M
Quant Title : VOC Analysis
QLast Update : Wed Jul 17 07:20:32 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	291522	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	263308	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	126902	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	80804	18.15	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	72.60%
7) Chloroethane-d5	2.88	69	60963	19.52	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	78.08%
10) 1,1-Dichloroethene-d2	4.02	63	190003	20.15	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	80.60%
20) 2-Butanone-d5	7.07	46	120726	68.85	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	137.70%#
24) Chloroform-d	7.65	84	167319	20.94	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	83.76%
26) 1,2-Dichloroethane-d4	8.30	65	102508	20.83	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	83.32%
29) Benzene-d6	8.27	84	333680	20.57	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	82.28%
33) 1,2-Dichloropropane-d6	9.27	67	110546	20.93	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	83.72%
37) Toluene-d8	10.32	98	294794	20.39	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	81.56%
38) trans-1,3-Dichloropropene-	10.58	79	44912	20.00	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	80.00%
39) 2-Hexanone-d5	10.93	63	79232	65.41	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	130.82%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	111924	25.62	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	102.48%
61) 1,2-Dichlorobenzene-d4	13.85	152	101613	20.86	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	83.44%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	74729	20.842 ug/L	95
3) Chloromethane	2.21	50	77434	19.893 ug/L	99
5) Vinyl chloride	2.35	62	106646	20.991 ug/L	97
6) Bromomethane	2.77	94	48939	20.589 ug/L	99
8) Chloroethane	2.92	64	56086	21.841 ug/L	99
9) Trichlorofluoromethane	3.24	101	38676	22.233 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	90528	23.356 ug/L	97
12) 1,1-Dichloroethene	4.04	96	84878	22.155 ug/L	80
13) Acetone	4.12	43	88020	51.392 ug/L	98
14) Carbon disulfide	4.38	76	222527	20.306 ug/L	100
15) Methyl Acetate	4.67	43	92103	33.048 ug/L	98
16) Methylene chloride	4.91	84	90698	21.172 ug/L	95
17) Methyl tert-butyl Ether	5.42	73	145424	24.477 ug/L	100
18) trans-1,2-Dichloroethene	5.42	96	84742	21.890 ug/L	97
19) 1,1-Dichloroethane	6.21	63	180023	22.906 ug/L	99
21) 2-Butanone	7.16	43	139384	63.041 ug/L	99
22) cis-1,2-Dichloroethene	7.16	96	94791	22.621 ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	40419	22.988	ug/L	97
25) Chloroform	7.67	83	167500	22.501	ug/L	100
27) 1,2-Dichloroethane	8.40	62	129593	22.774	ug/L	99
30) Cyclohexane	7.95	56	175868	21.968	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	129808	23.753	ug/L	100
32) Carbon tetrachloride	8.07	117	120369	23.486	ug/L	98
34) Benzene	8.32	78	372766	22.652	ug/L	100
35) Trichloroethene	9.09	95	93244	22.453	ug/L	99
36) Methylcyclohexane	9.34	83	164345	21.991	ug/L	99
40) 1,2-Dichloropropane	9.37	63	103410	22.932	ug/L	99
41) Bromodichloromethane	9.64	83	120064	23.094	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	150151	22.567	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	258079	61.738	ug/L	99
44) Toluene	10.38	91	391227	22.968	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	127785	23.211	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	75567	24.199	ug/L	97
47) Tetrachloroethene	10.86	164	70199	22.367	ug/L	98
49) 2-Hexanone	10.97	43	194803	64.022	ug/L	98
50) Dibromochloromethane	11.13	129	80383	24.173	ug/L	98
51) 1,2-Dibromoethane	11.23	107	73622	24.416	ug/L	97
52) Chlorobenzene	11.66	112	233795	22.467	ug/L	98
53) Ethylbenzene	11.73	91	441400	22.846	ug/L	100
54) m,p-Xylene	11.84	106	159408	22.725	ug/L	98
55) o-xylene	12.16	106	152962	22.922	ug/L	98
56) Styrene	12.18	104	266276	23.261	ug/L	99
57) Isopropylbenzene	12.46	105	426188	23.397	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	113596	27.344	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	89175	27.952	ug/L	100
62) Bromoform	12.35	173	49181	26.004	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	177899	22.786	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	180133	22.538	ug/L	100
65) 1,2-Dichlorobenzene	13.87	146	171343	23.577	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	23510	32.950	ug/L	97
67) 1,3,5-Trichlorobenzene	14.63	180	133433	22.557	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	111579	22.515	ug/L	100
69) Naphthalene	15.37	128	290746	28.013	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	108126	23.846	ug/L	99

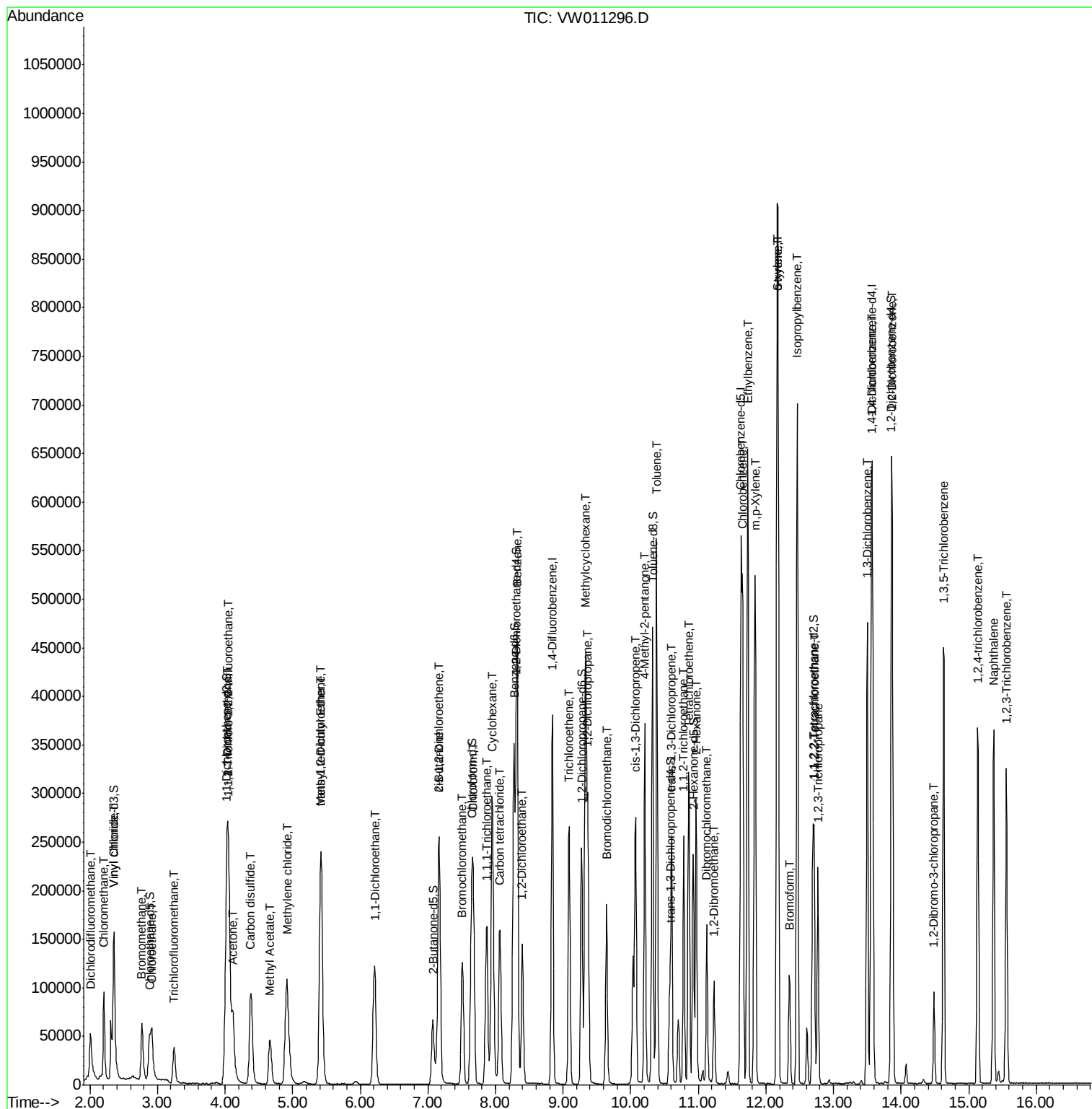
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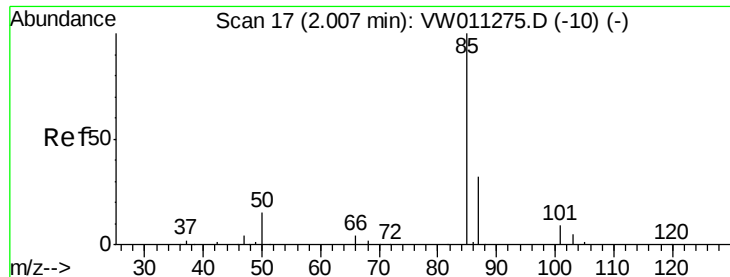
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#2

Dichlorodifluoromethane

Concen: 20.842 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

Instrument :

MSVOA_W

ClientSampleId :

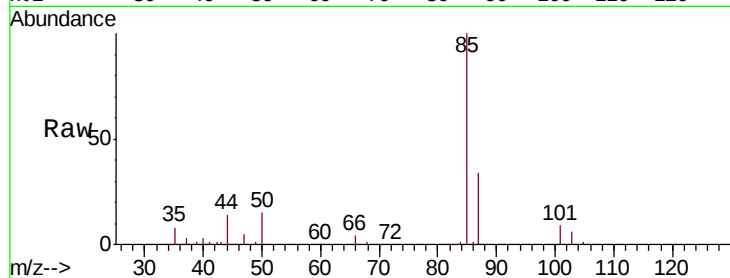
VSTD02509

Tgt Ion: 85 Resp: 74729

Ion Ratio Lower Upper

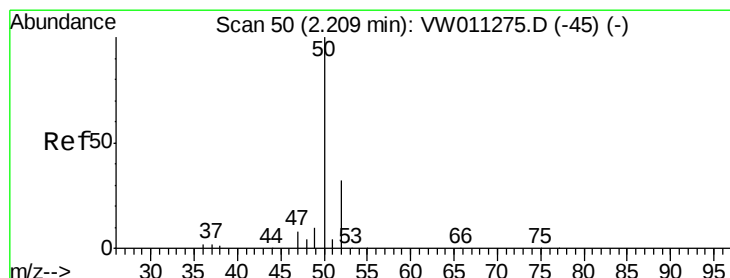
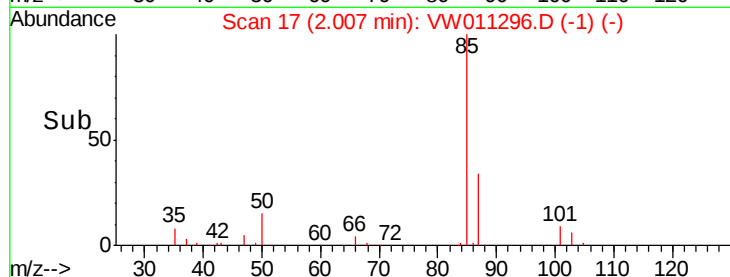
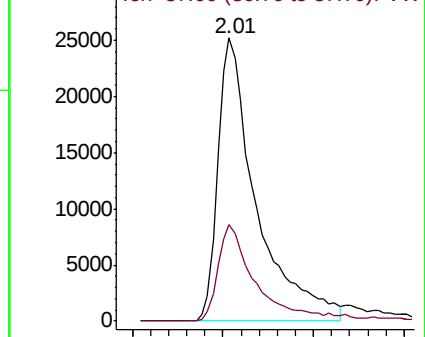
85 100

87 32.2 20.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 19.893 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW011296.D

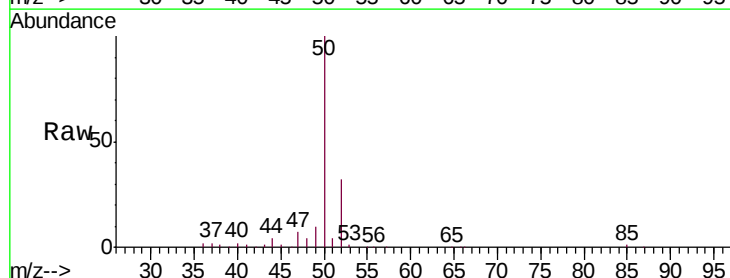
Acq: 16 Jul 2019 19:47

Tgt Ion: 50 Resp: 77434

Ion Ratio Lower Upper

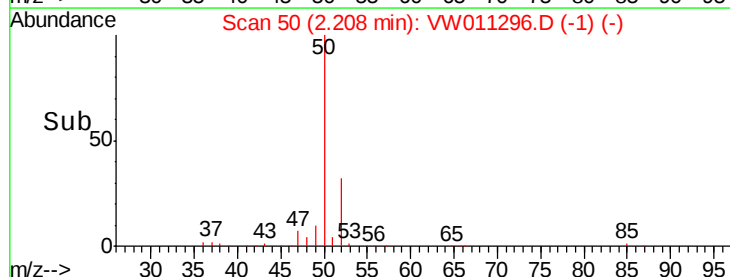
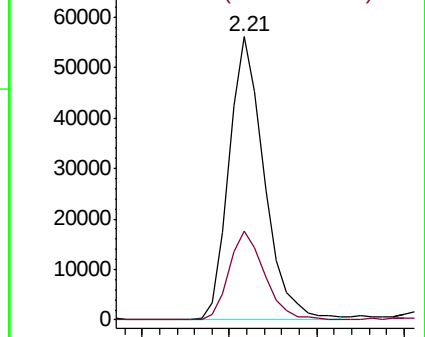
50 100

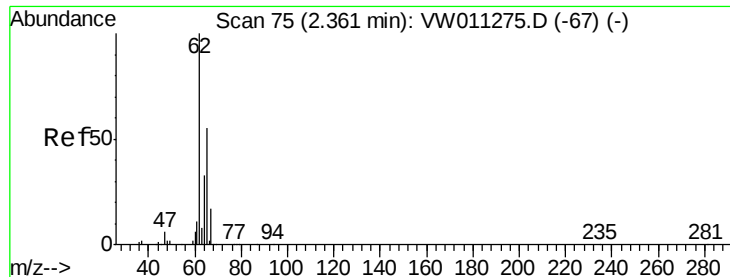
52 31.5 22.3 41.5



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 20.991 ug/L

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

Instrument :

MSVOA_W

ClientSampled :

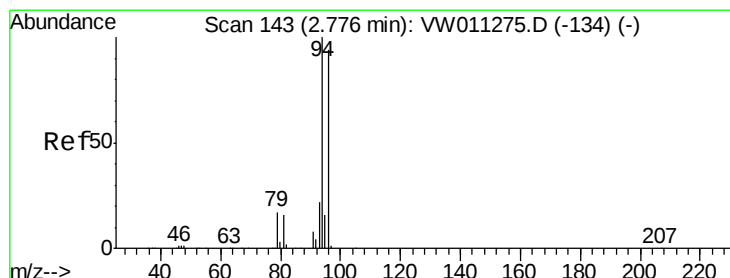
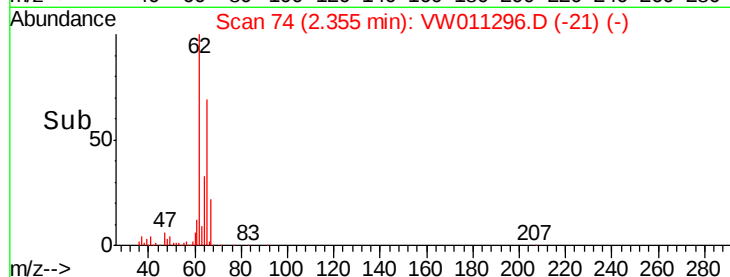
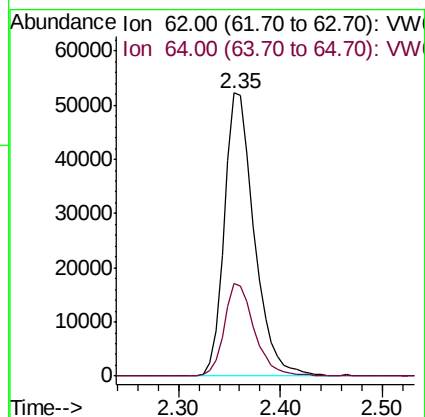
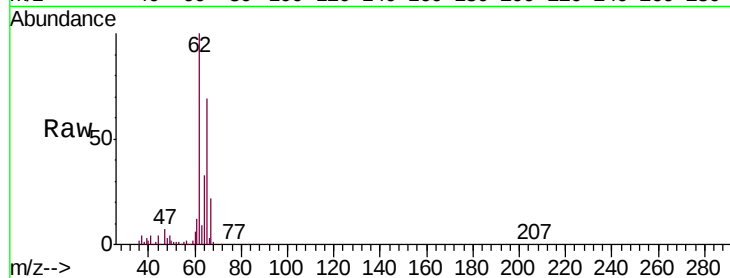
VSTD02509

Tgt Ion: 62 Resp: 106646

Ion Ratio Lower Upper

62 100

64 32.6 23.9 44.3



#6

Bromomethane

Concen: 20.589 ug/L

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW011296.D

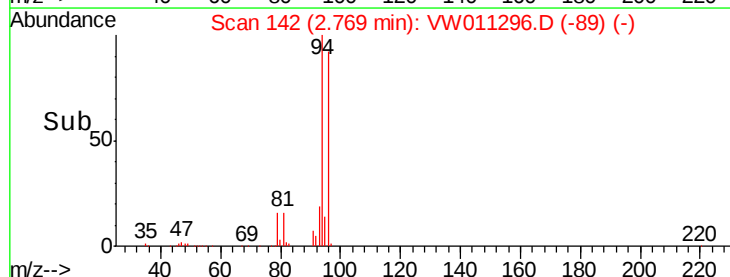
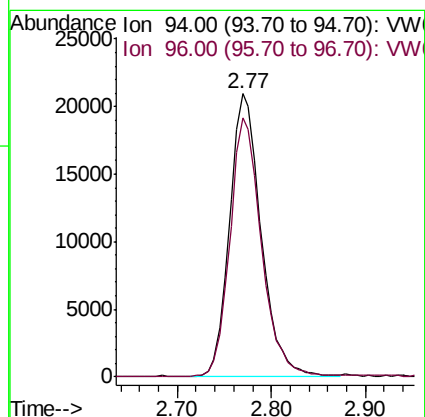
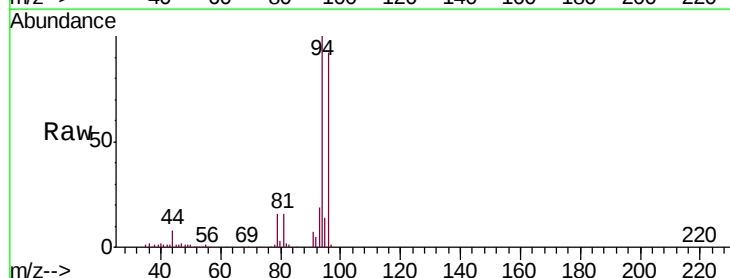
Acq: 16 Jul 2019 19:47

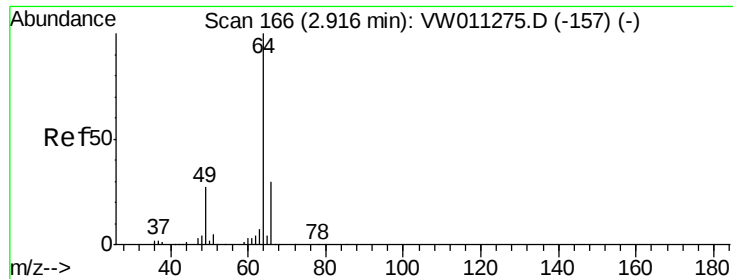
Tgt Ion: 94 Resp: 48939

Ion Ratio Lower Upper

94 100

96 91.9 9.3 177.3





#8

Chloroethane

Concen: 21.841 ug/L

RT: 2.92 min Scan# 166

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

Instrument :

MSVOA_W

ClientSampleId :

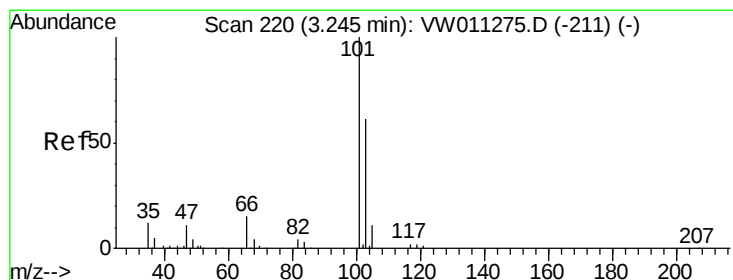
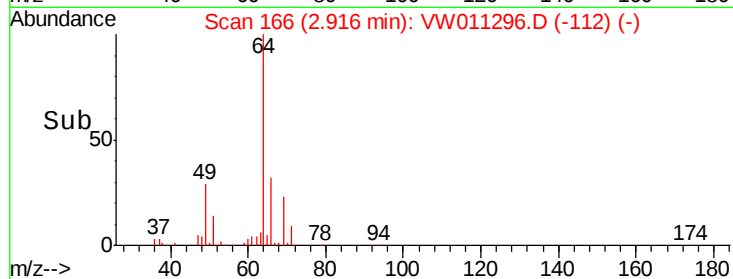
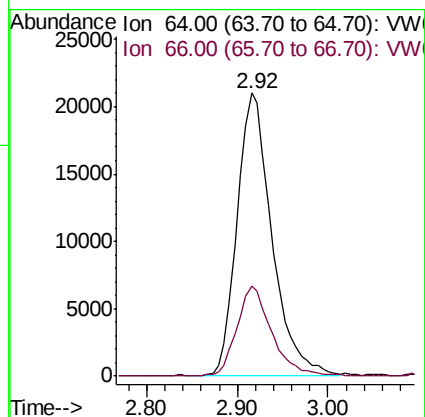
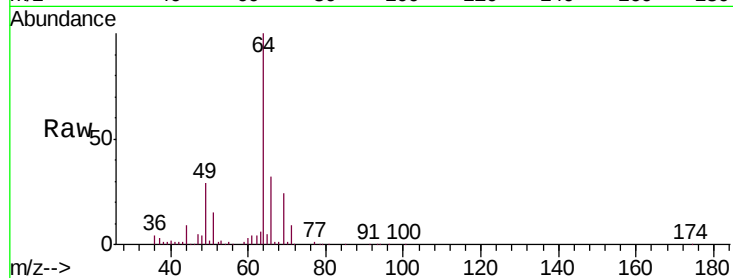
VSTD02509

Tgt Ion: 64 Resp: 56086

Ion Ratio Lower Upper

64 100

66 32.0 21.9 40.7



#9

Trichlorofluoromethane

Concen: 22.233 ug/L

RT: 3.24 min Scan# 220

Delta R.T. -0.00 min

Lab File: VW011296.D

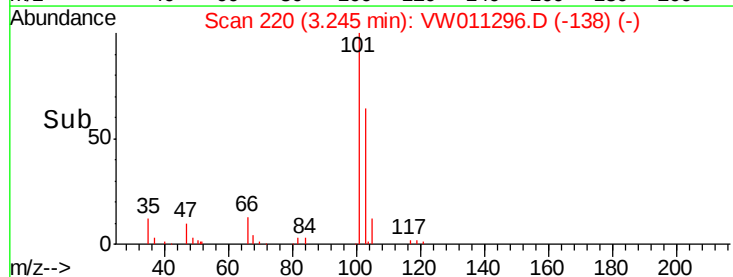
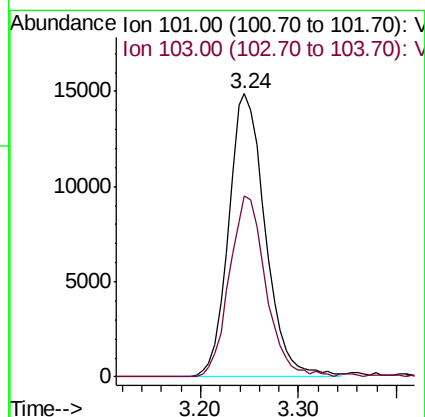
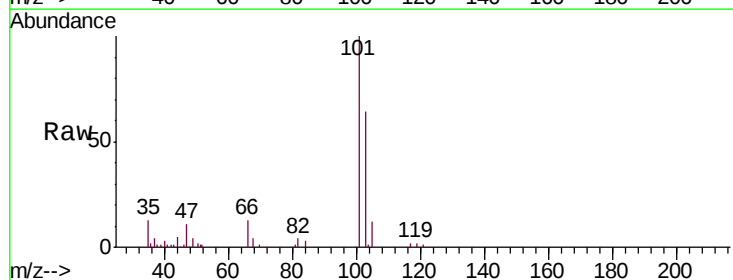
Acq: 16 Jul 2019 19:47

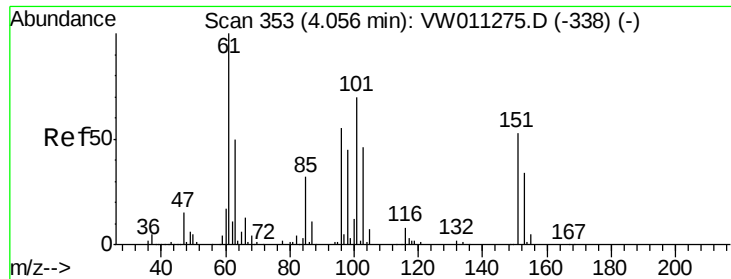
Tgt Ion: 101 Resp: 38676

Ion Ratio Lower Upper

101 100

103 63.8 44.6 82.8





#11

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

Concen: 23.356 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02509

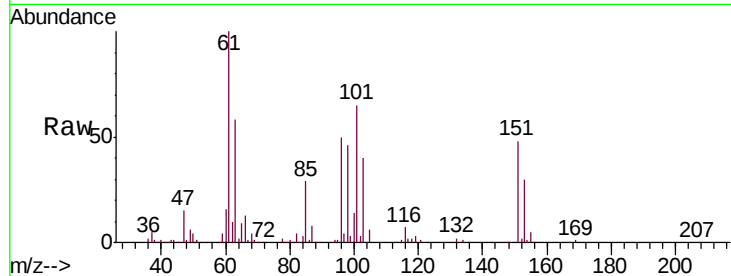
Tgt Ion: 101 Resp: 90528

Ion Ratio Lower Upper

101 100

85 43.5 33.8 50.8

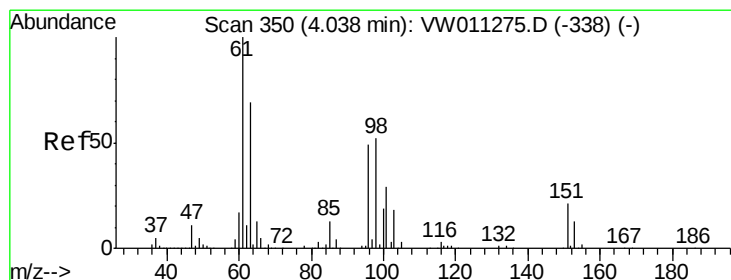
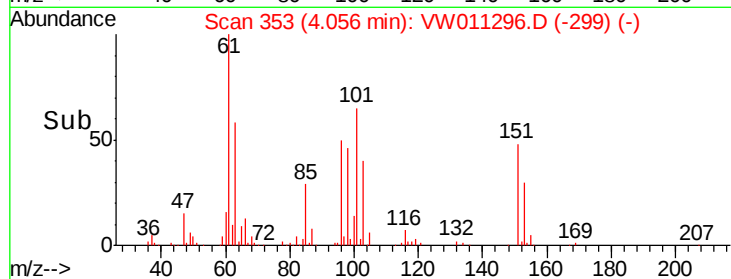
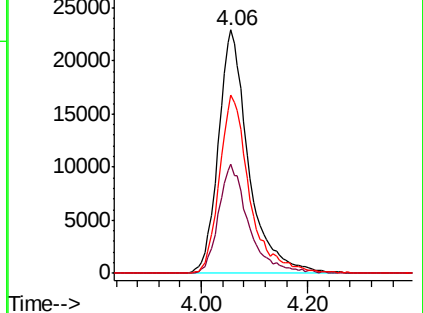
151 68.2 56.9 85.3



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: 22.155 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

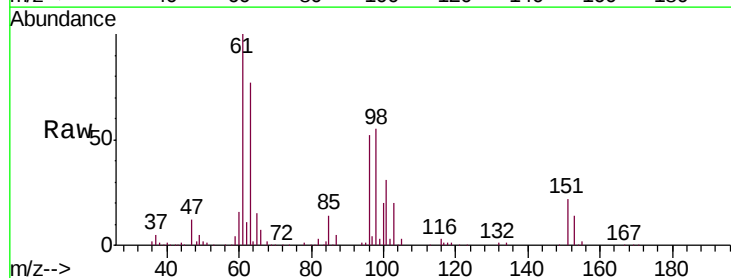
Tgt Ion: 96 Resp: 84878

Ion Ratio Lower Upper

96 100

61 193.0 142.2 264.0

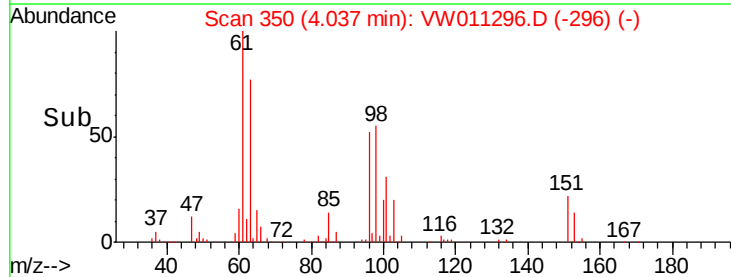
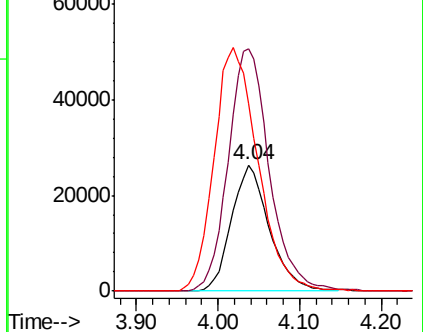
63 148.8 138.9 257.9

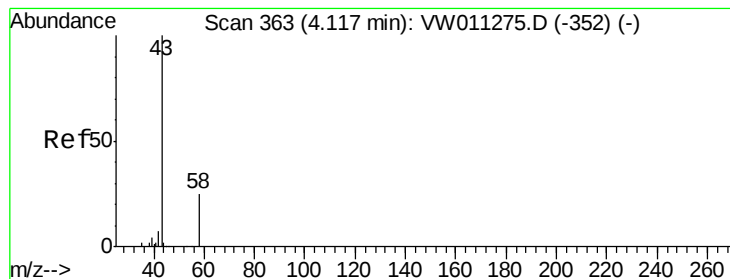


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 51.392 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

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ClientSampleId :

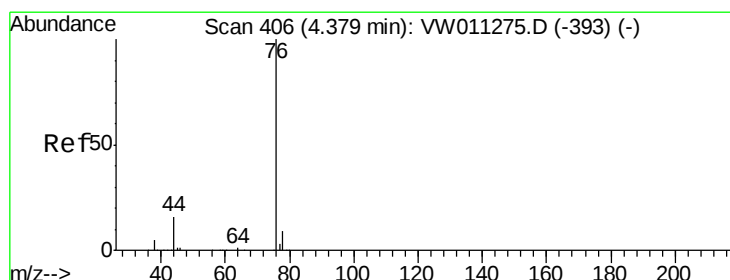
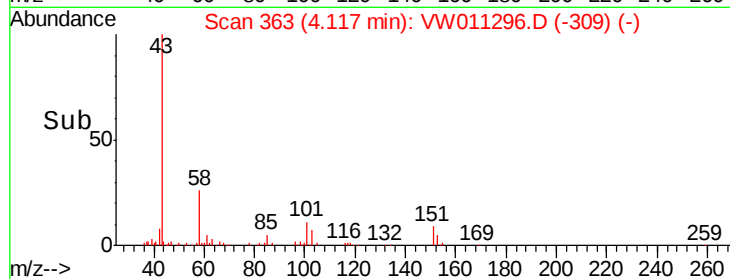
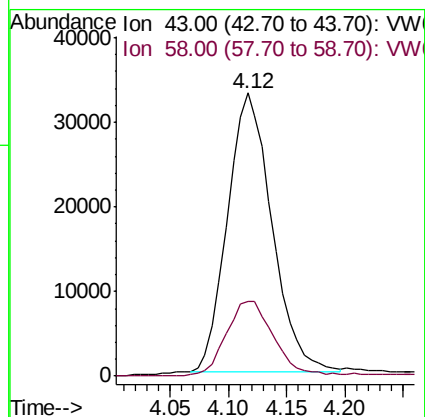
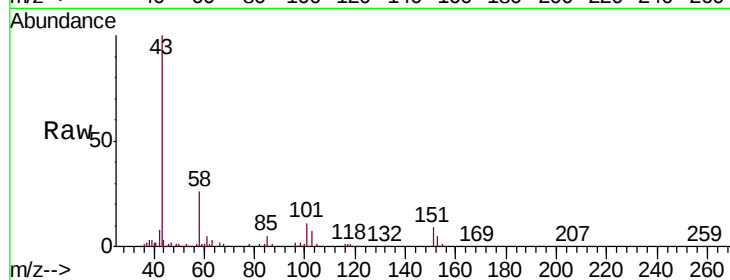
VSTD02509

Tgt Ion: 43 Resp: 88020

Ion Ratio Lower Upper

43 100

58 28.6 0.0 55.0



#14

Carbon disulfide

Concen: 20.306 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW011296.D

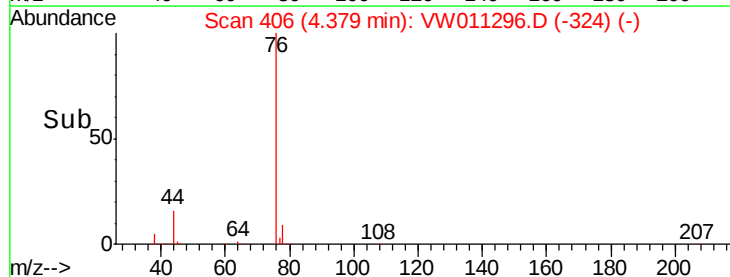
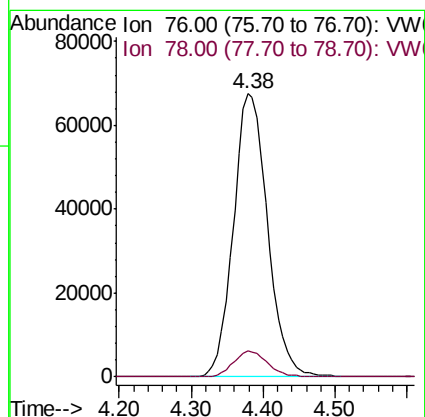
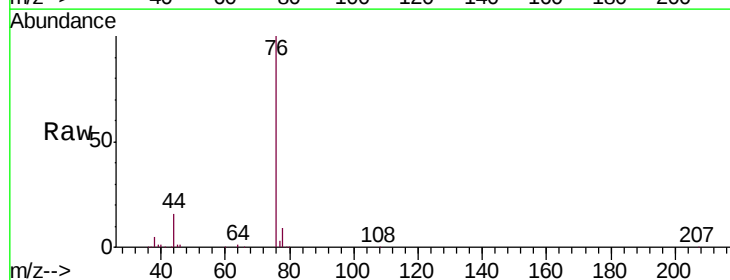
Acq: 16 Jul 2019 19:47

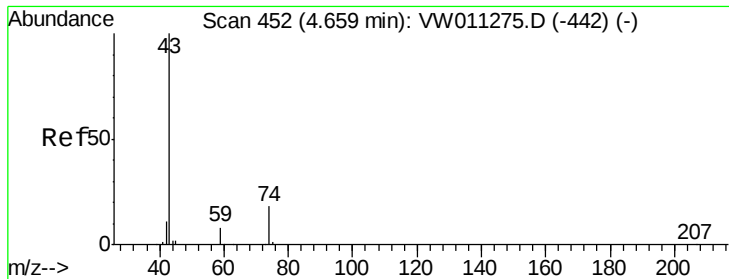
Tgt Ion: 76 Resp: 222527

Ion Ratio Lower Upper

76 100

78 9.3 7.3 10.9

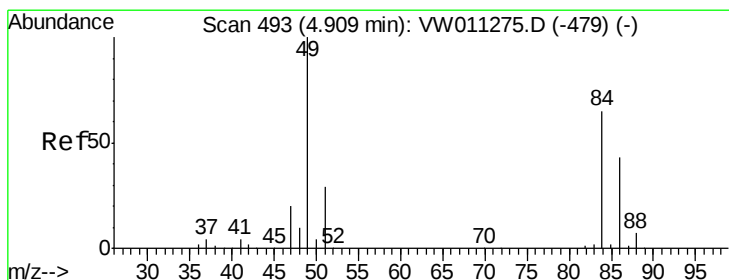
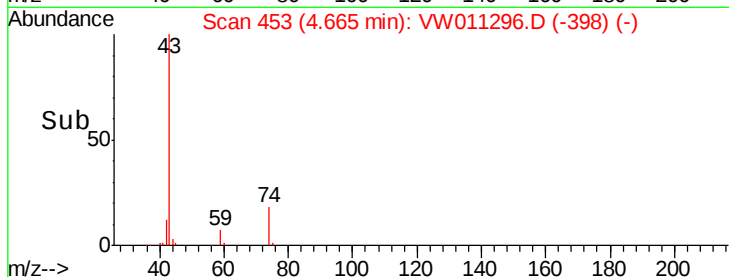
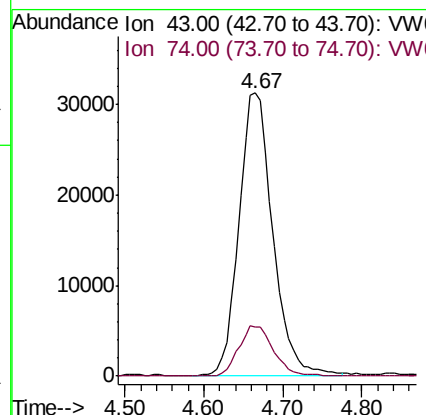
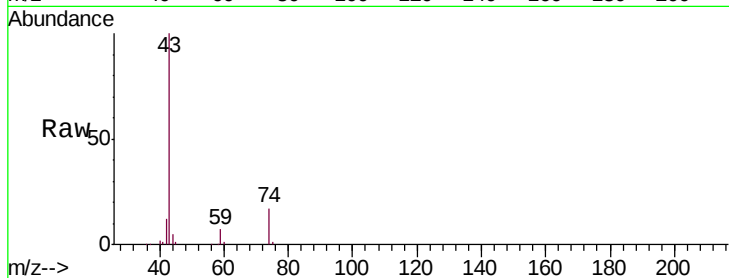




#15
Methyl Acetate
Concen: 33.048 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.01 min
Lab File: VW011296.D
Acq: 16 Jul 2019 19:47

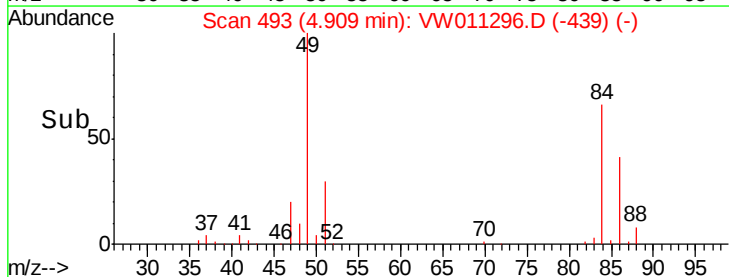
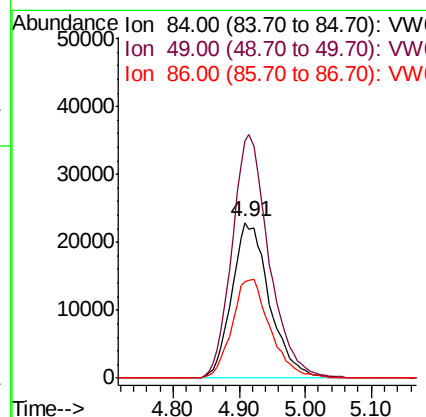
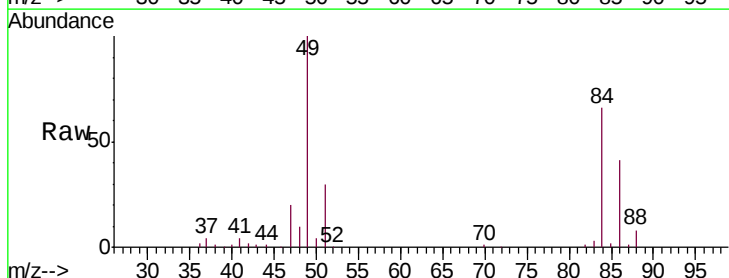
Instrument :
MSVOA_W
ClientSampleId :
VSTD02509

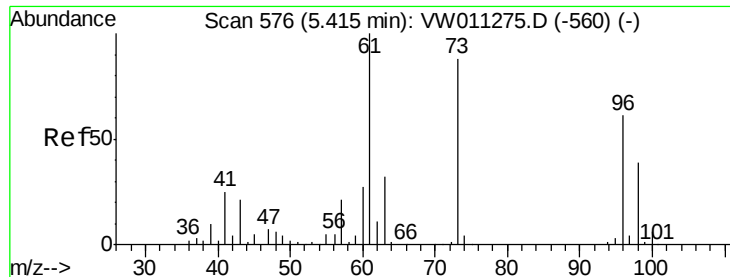
Tgt Ion: 43 Resp: 92103
Ion Ratio Lower Upper
43 100
74 18.2 15.1 22.7



#16
Methylene chloride
Concen: 21.172 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.00 min
Lab File: VW011296.D
Acq: 16 Jul 2019 19:47

Tgt Ion: 84 Resp: 90698
Ion Ratio Lower Upper
84 100
49 152.0 102.5 190.3
86 61.7 46.4 86.2

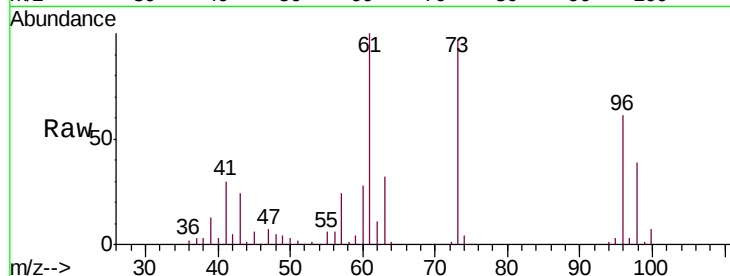




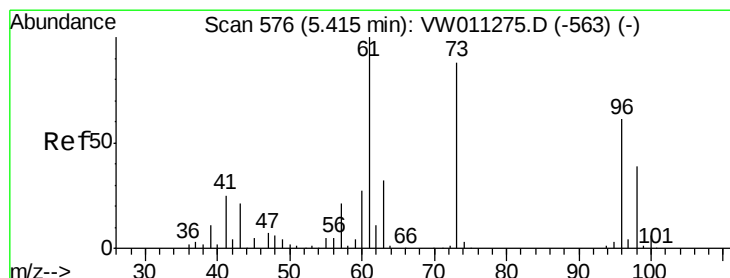
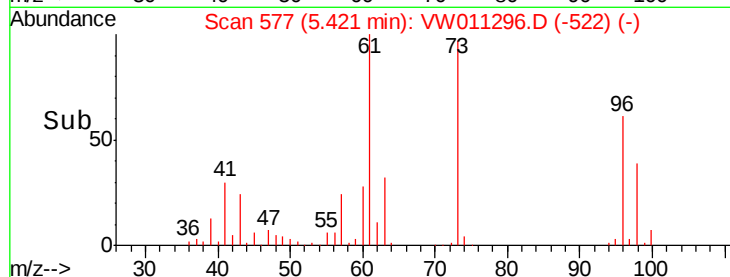
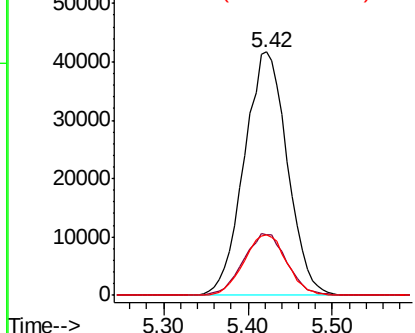
#17
Methyl tert-butyl Ether
Concen: 24.477 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.01 min
Lab File: VW011296.D
Acq: 16 Jul 2019 19:47

Instrument :
MSVOA_W
ClientSampled :
VSTD02509

Tgt Ion: 73 Resp: 145424
Ion Ratio Lower Upper
73 100
43 25.2 20.2 30.2
57 24.8 19.6 29.4

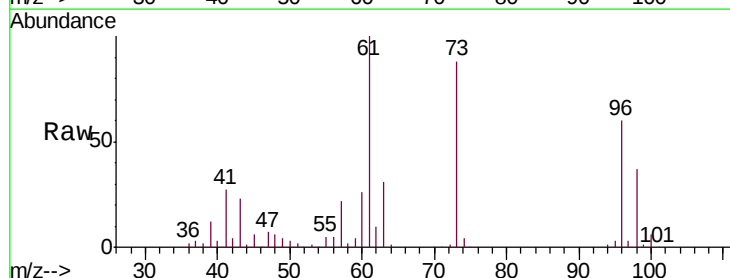


Abundance Ion 73.00 (72.70 to 73.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 57.00 (56.70 to 57.70): VW

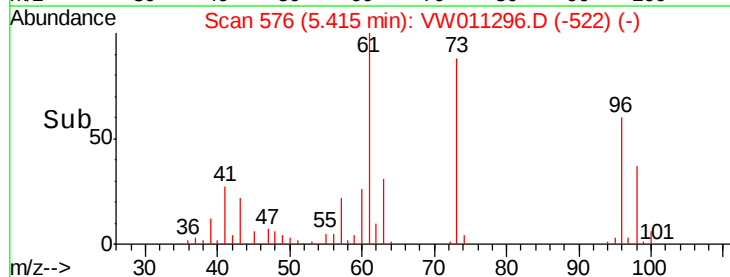
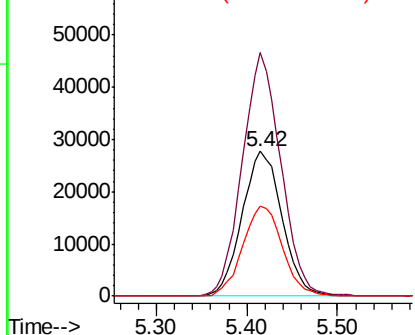


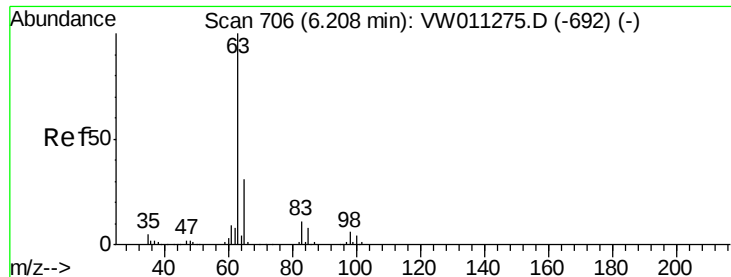
#18
trans-1,2-Dichloroethene
Concen: 21.890 ug/L
RT: 5.42 min Scan# 576
Delta R.T. -0.00 min
Lab File: VW011296.D
Acq: 16 Jul 2019 19:47

Tgt Ion: 96 Resp: 84742
Ion Ratio Lower Upper
96 100
61 168.0 113.7 211.1
98 62.5 43.3 80.3



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: 22.906 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.01 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02509

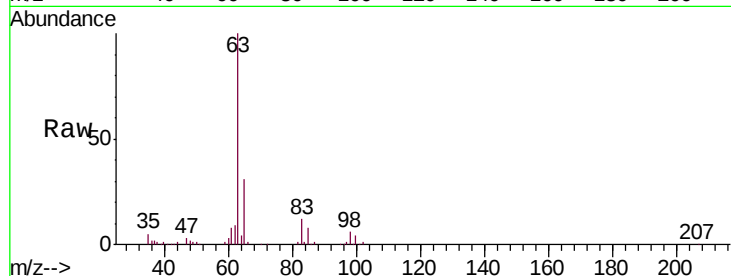
Tgt Ion: 63 Resp: 180023

Ion Ratio Lower Upper

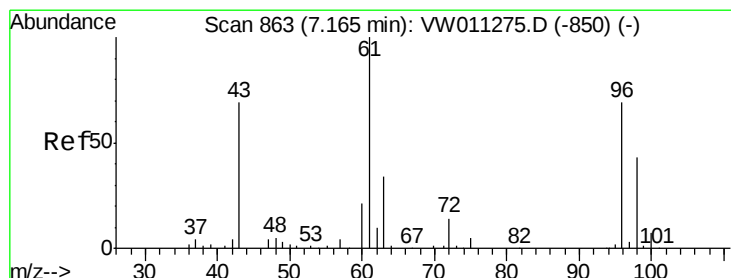
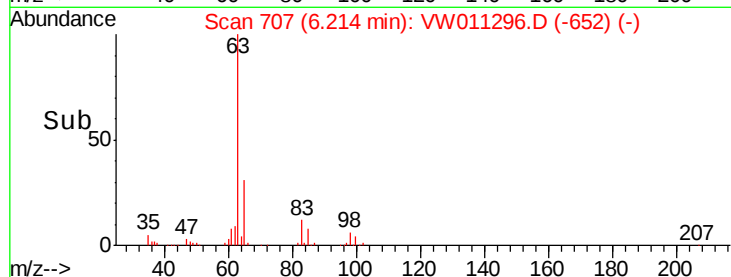
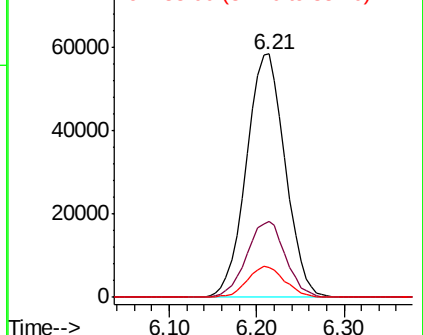
63 100

65 31.1 22.1 41.1

83 12.3 9.0 16.6



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



#21

2-Butanone

Concen: 63.041 ug/L

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW011296.D

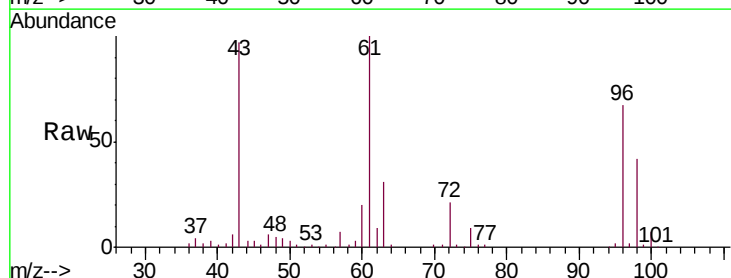
Acq: 16 Jul 2019 19:47

Tgt Ion: 43 Resp: 139384

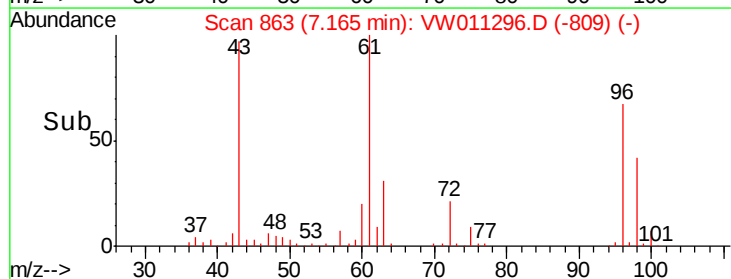
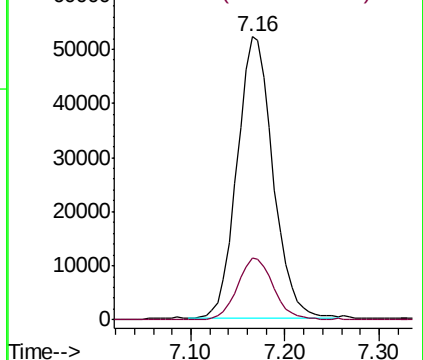
Ion Ratio Lower Upper

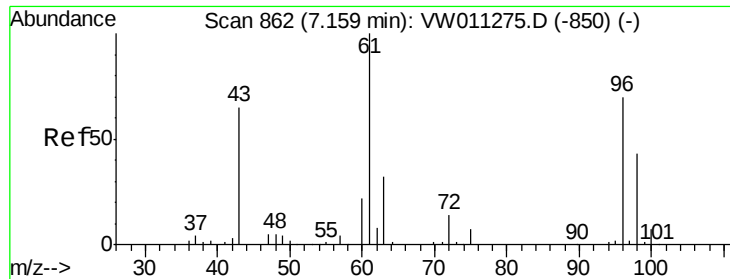
43 100

72 22.1 11.2 33.6



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW



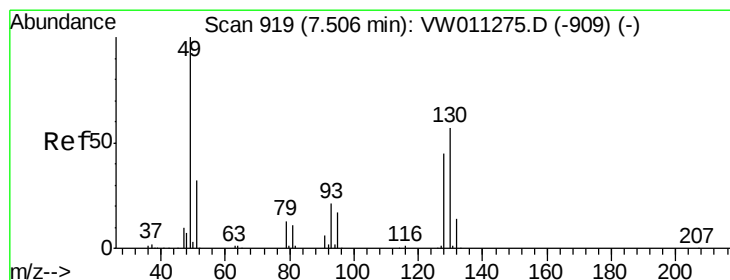
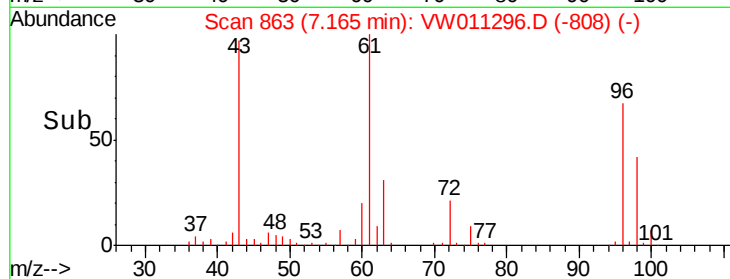
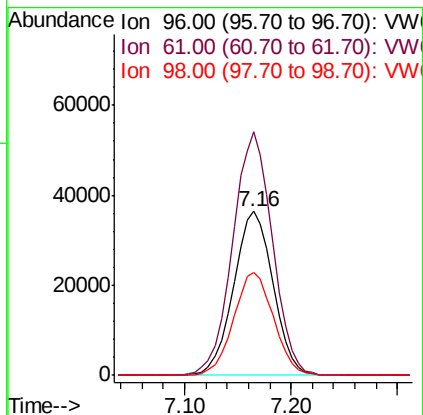
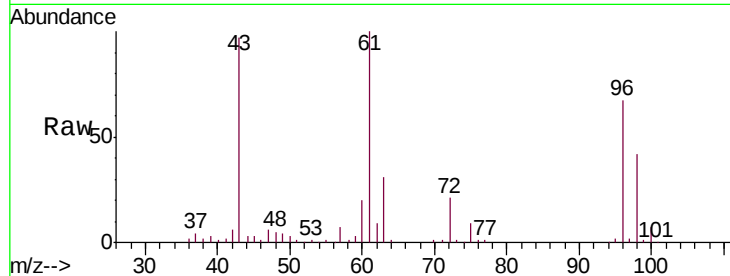


#22

cis-1,2-Dichloroethene
 Concen: 22.621 ug/L
 RT: 7.16 min Scan# 863
 Delta R.T. 0.01 min
 Lab File: VW011296.D
 Acq: 16 Jul 2019 19:47

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02509

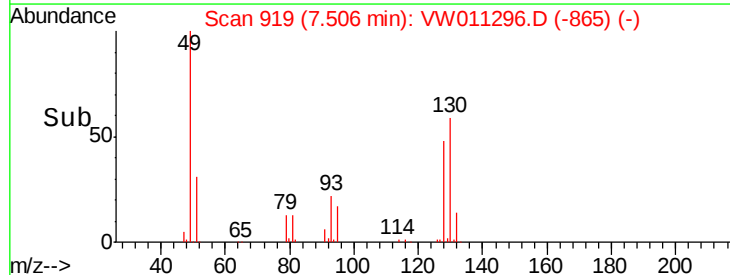
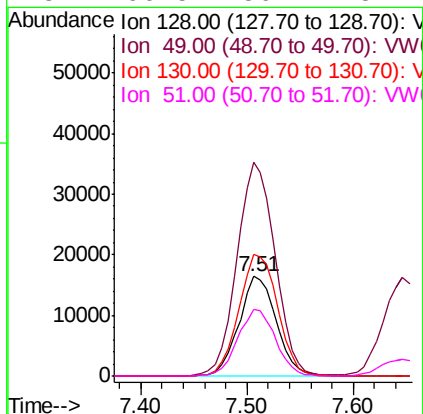
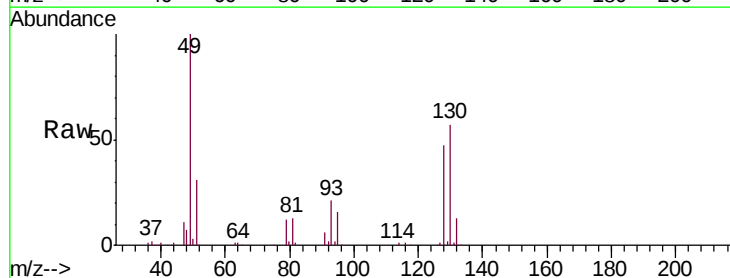
Tgt Ion: 96 Resp: 94791
 Ion Ratio Lower Upper
 96 100
 61 148.5 103.2 191.6
 98 62.5 44.8 83.2

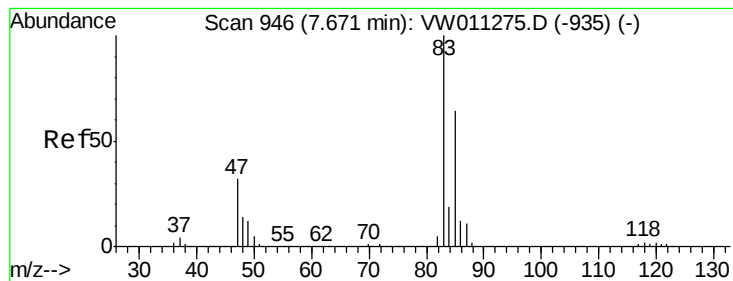


#23

Bromochloromethane
 Concen: 22.988 ug/L
 RT: 7.51 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: VW011296.D
 Acq: 16 Jul 2019 19:47

Tgt Ion: 128 Resp: 40419
 Ion Ratio Lower Upper
 128 100
 49 214.3 153.8 285.6
 130 121.7 86.4 160.4
 51 66.5 56.2 84.4





#25

Chloroform

Concen: 22.501 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

Instrument :

MSVOA_W

ClientSampleId :

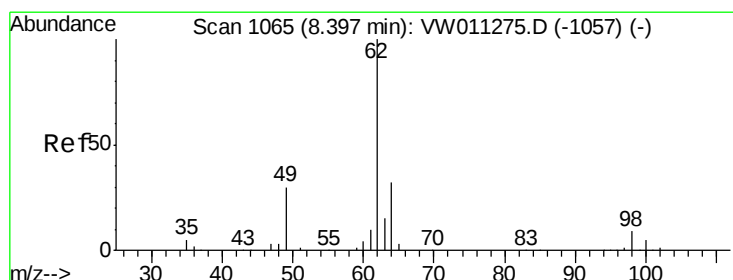
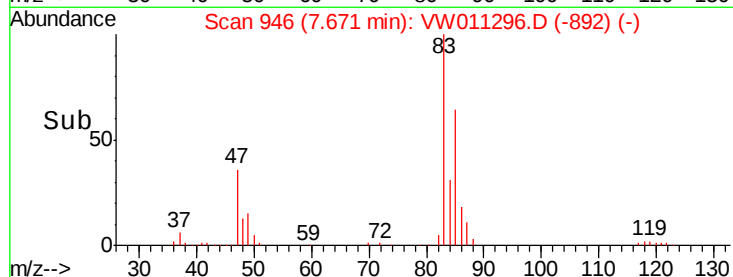
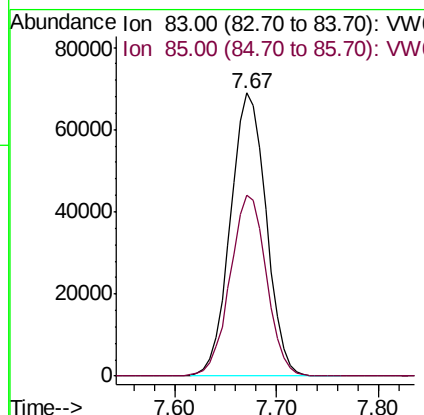
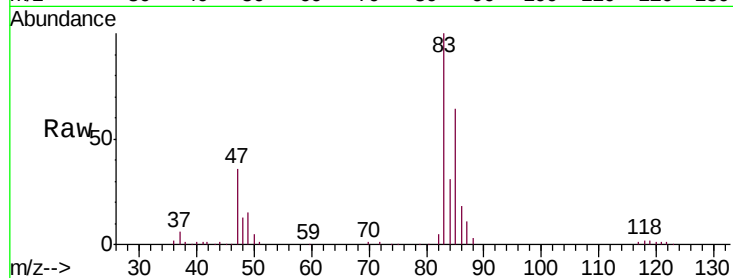
VSTD02509

Tgt Ion: 83 Resp: 167500

Ion Ratio Lower Upper

83 100

85 65.0 45.6 84.6



#27

1,2-Dichloroethane

Concen: 22.774 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW011296.D

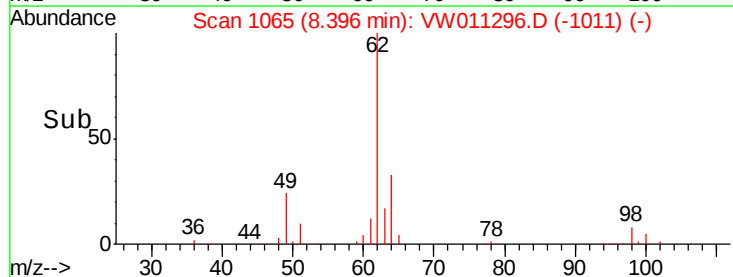
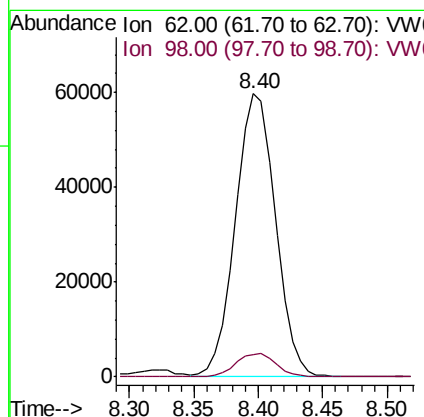
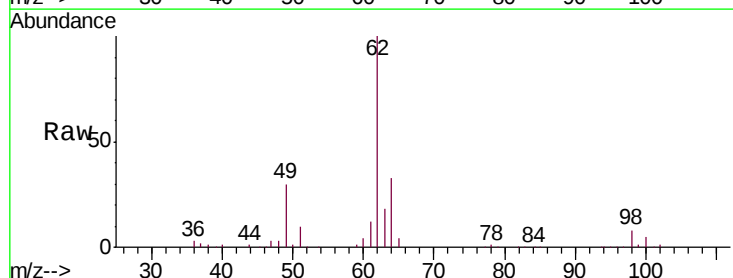
Acq: 16 Jul 2019 19:47

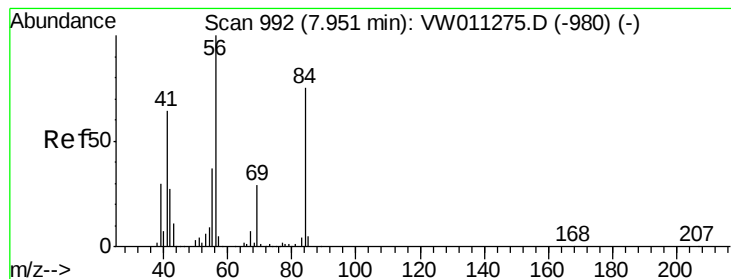
Tgt Ion: 62 Resp: 129593

Ion Ratio Lower Upper

62 100

98 8.0 6.6 10.0





#30

Cyclohexane

Concen: 21.968 ug/L

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02509

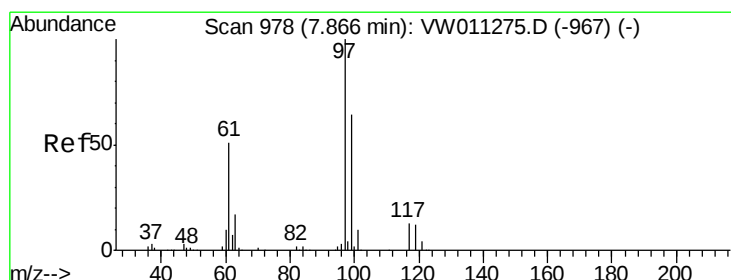
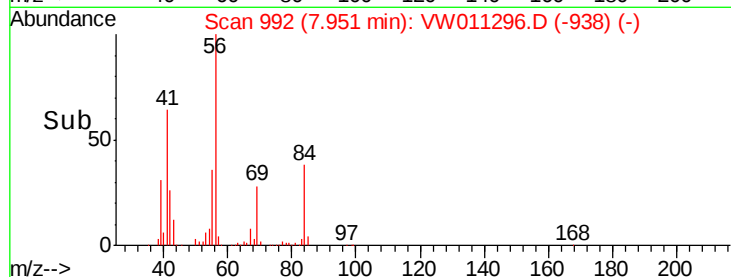
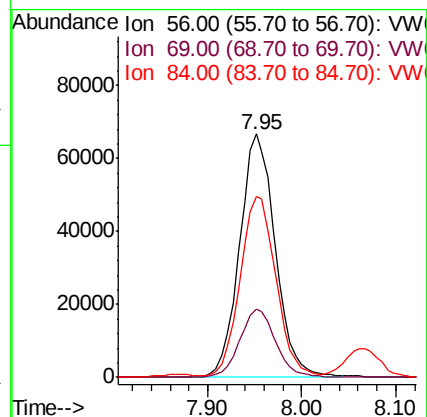
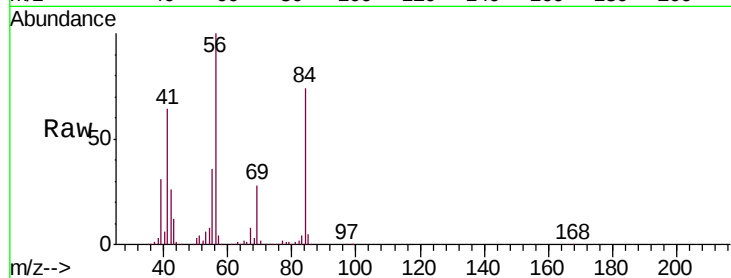
Tgt Ion: 56 Resp: 175868

Ion Ratio Lower Upper

56 100

69 27.9 22.5 33.7

84 74.9 60.9 91.3



#31

1,1,1-Trichloroethane

Concen: 23.753 ug/L

RT: 7.87 min Scan# 979

Delta R.T. 0.01 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

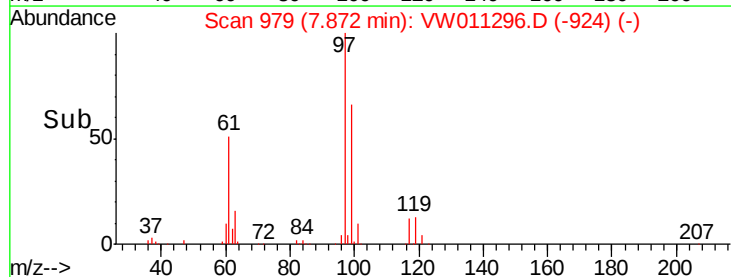
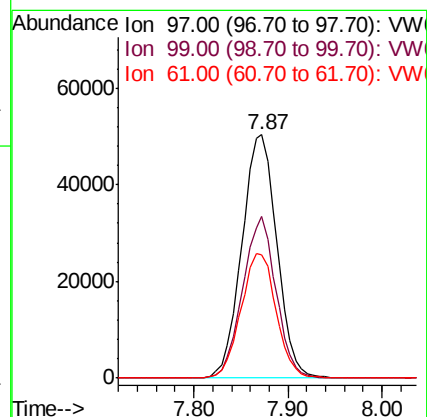
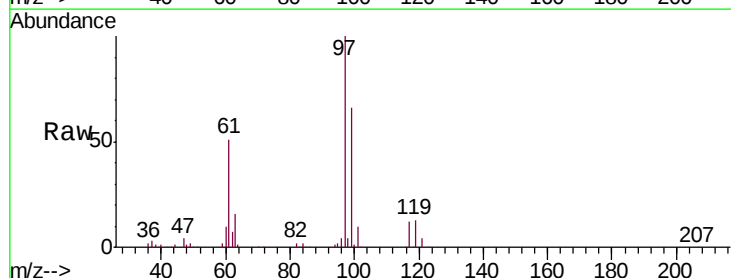
Tgt Ion: 97 Resp: 129808

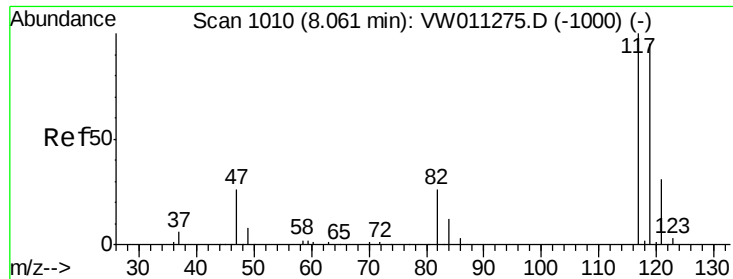
Ion Ratio Lower Upper

97 100

99 63.5 50.6 75.8

61 51.5 40.9 61.3





#32

Carbon tetrachloride

Concen: 23.486 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

Instrument :

MSVOA_W

ClientSampleId :

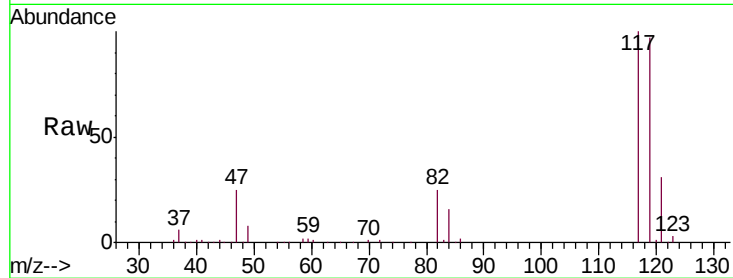
VSTD02509

Tgt Ion:117 Resp: 120369

Ion Ratio Lower Upper

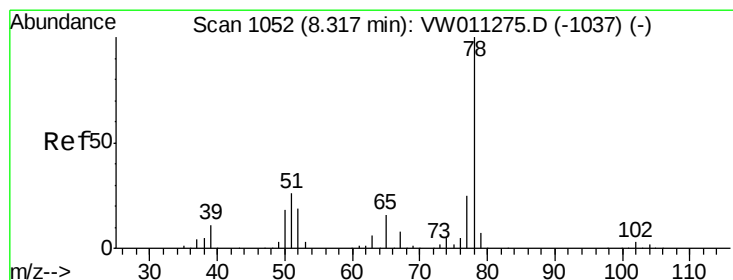
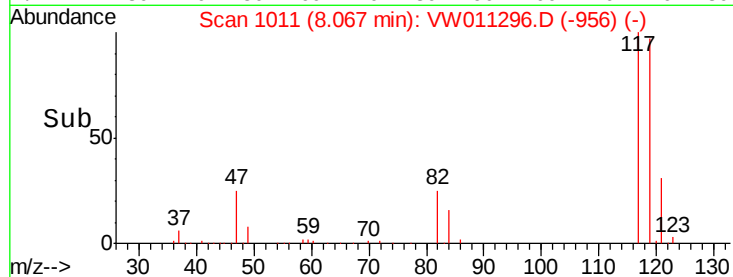
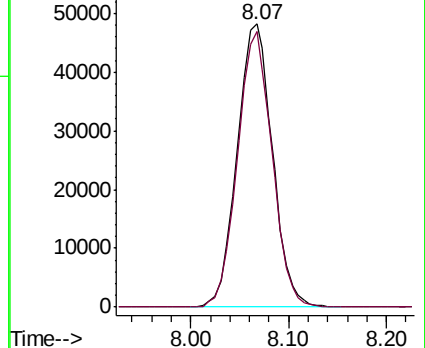
117 100

119 94.9 77.4 116.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 22.652 ug/L

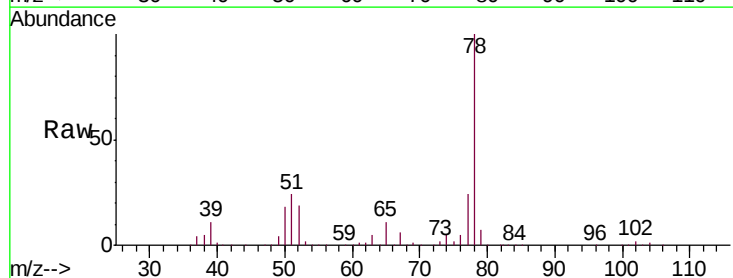
RT: 8.32 min Scan# 1053

Delta R.T. 0.01 min

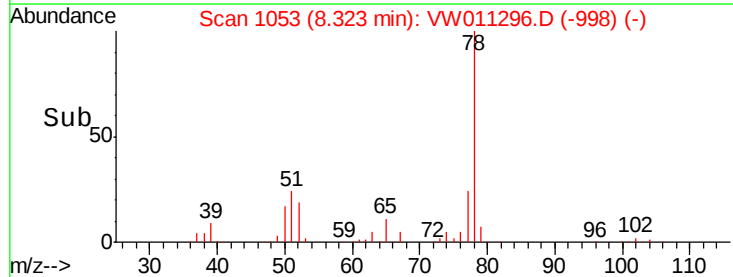
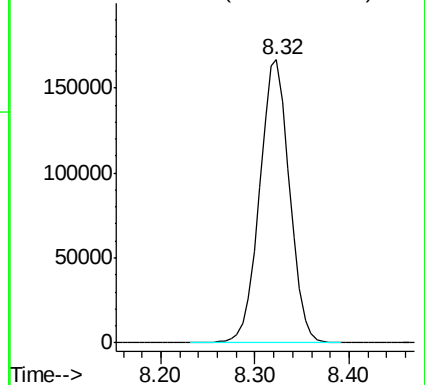
Lab File: VW011296.D

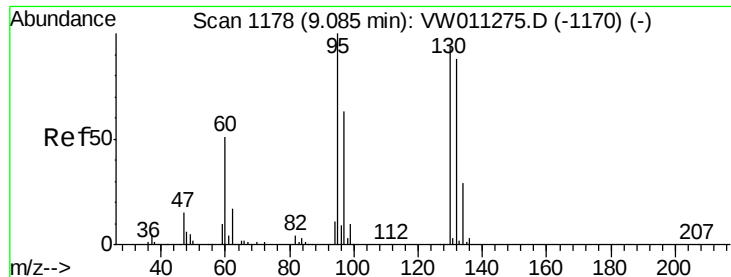
Acq: 16 Jul 2019 19:47

Tgt Ion: 78 Resp: 372766



Abundance Ion 78.00 (77.70 to 78.70): VW

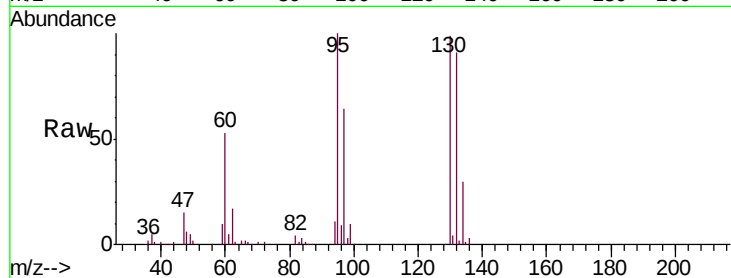




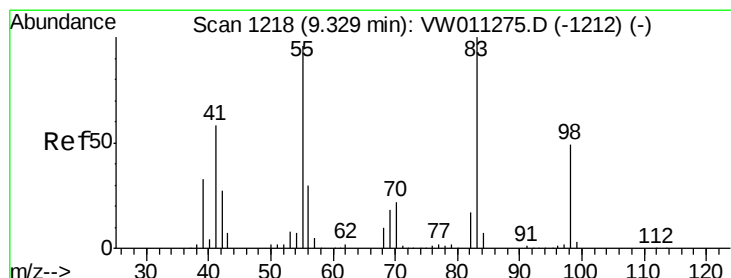
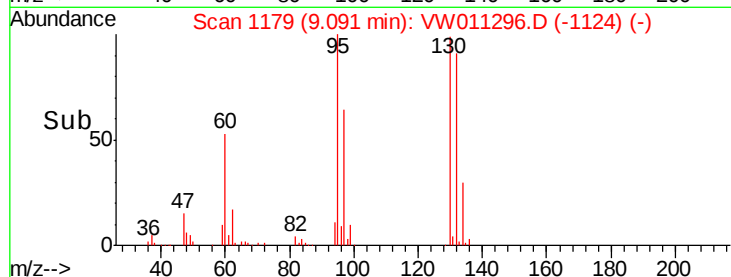
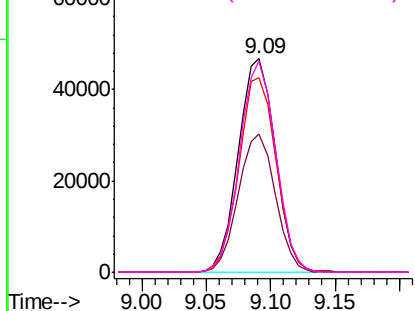
#35
 Trichloroethene
 Concen: 22.453 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. 0.01 min
 Lab File: VW011296.D
 Acq: 16 Jul 2019 19:47

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02509

Tgt Ion:	95	Resp:	93244
Ion	Ratio	Lower	Upper
95	100		
97	64.6	45.4	84.2
132	91.6	65.0	120.8
130	97.0	67.8	126.0

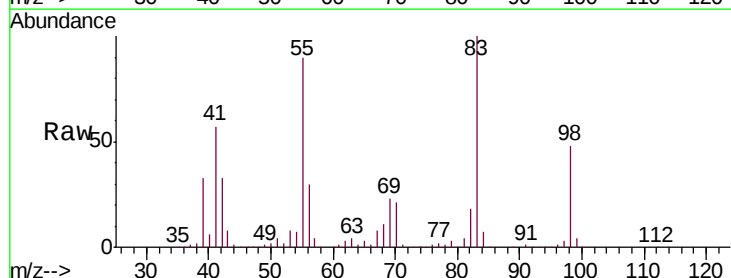


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

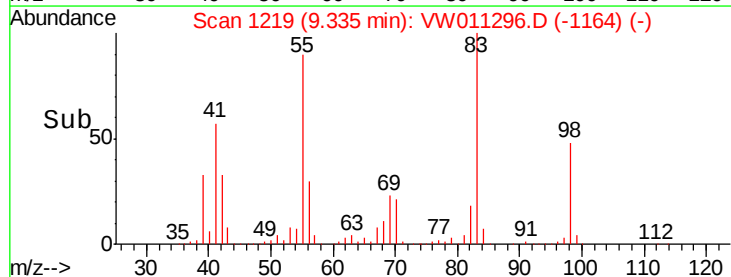
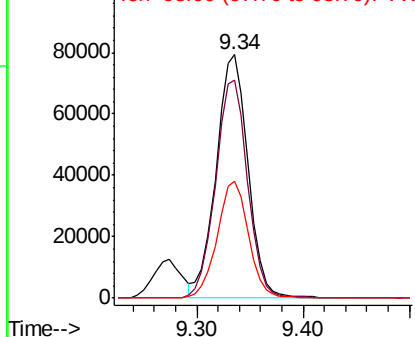


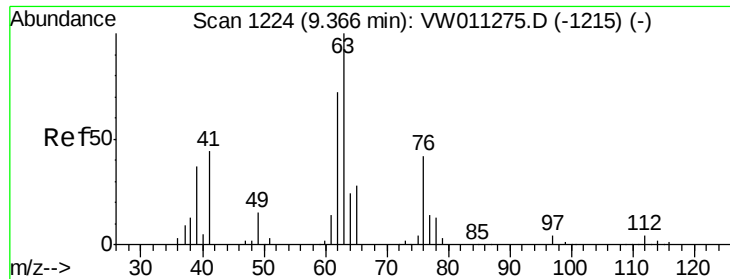
#36
 Methylcyclohexane
 Concen: 21.991 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. 0.01 min
 Lab File: VW011296.D
 Acq: 16 Jul 2019 19:47

Tgt Ion:	83	Resp:	164345
Ion	Ratio	Lower	Upper
83	100		
55	89.6	72.2	108.4
98	47.2	38.2	57.4



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

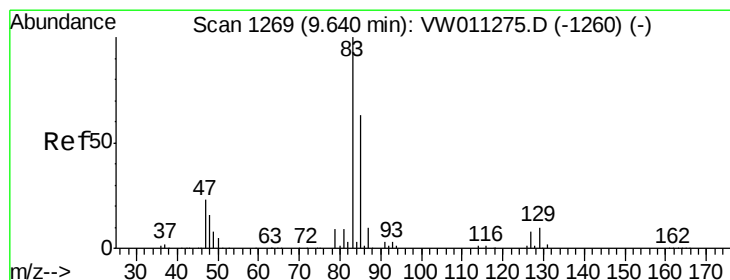
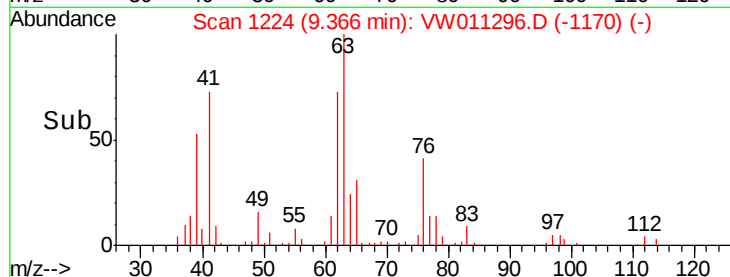
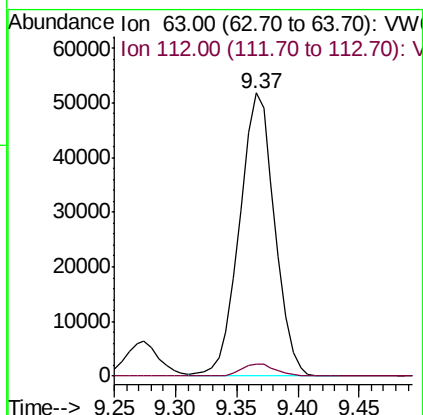
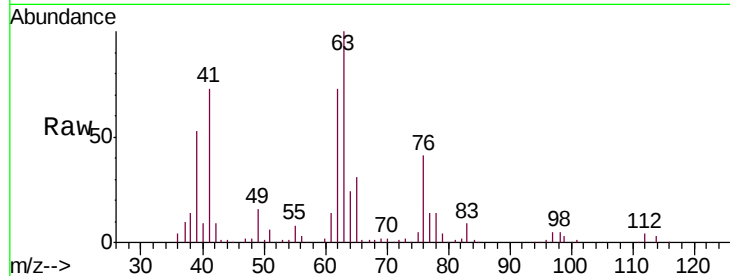




#40
 1,2-Dichloropropane
 Concen: 22.932 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW011296.D
 Acq: 16 Jul 2019 19:47

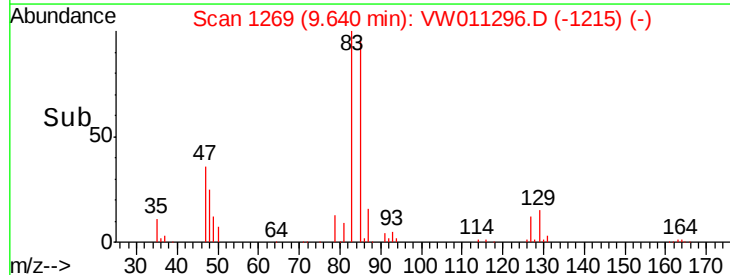
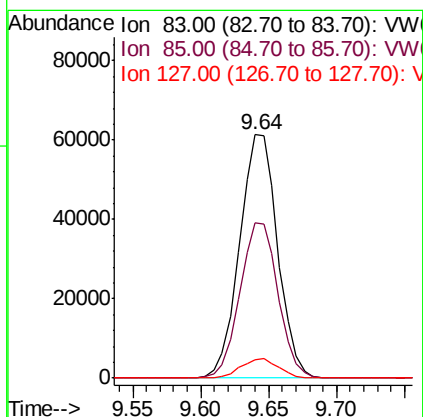
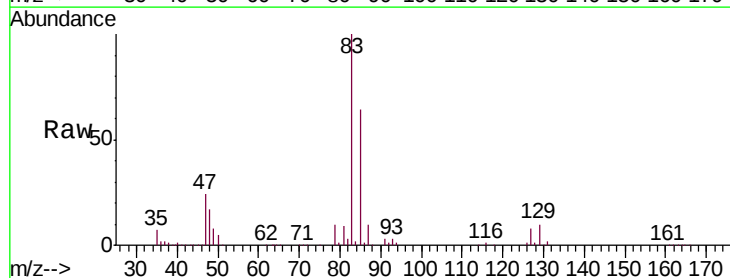
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02509

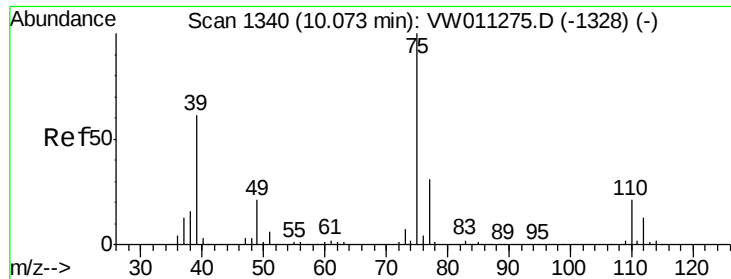
Tgt Ion: 63 Resp: 103410
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.0 4.6



#41
 Bromodichloromethane
 Concen: 23.094 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VW011296.D
 Acq: 16 Jul 2019 19:47

Tgt Ion: 83 Resp: 120064
 Ion Ratio Lower Upper
 83 100
 85 64.0 45.5 84.5
 127 7.7 5.8 8.8

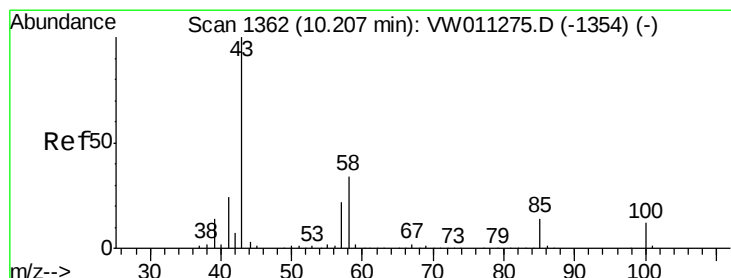
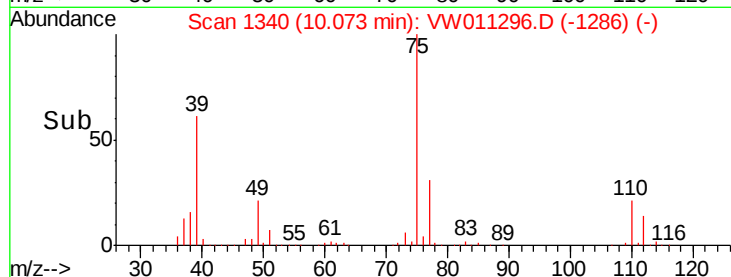
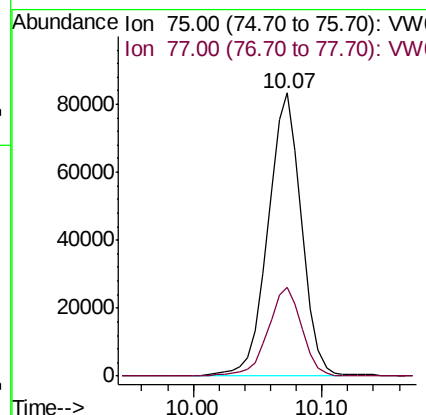
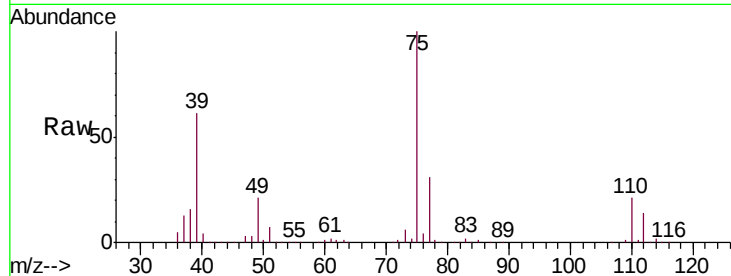




#42
 cis-1,3-Dichloropropene
 Concen: 22.567 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW011296.D
 Acq: 16 Jul 2019 19:47

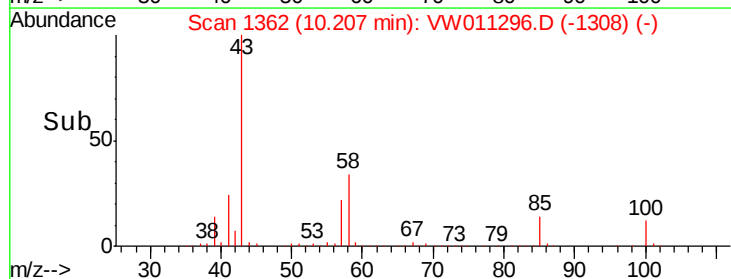
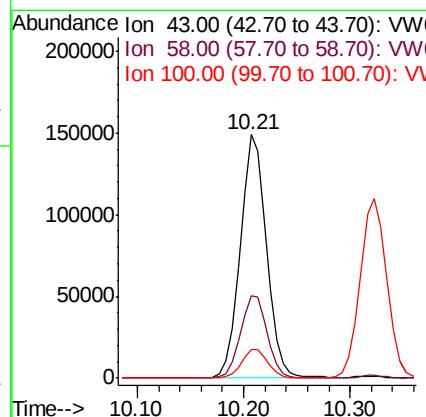
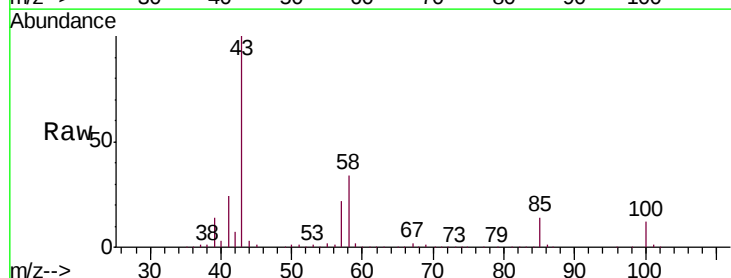
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02509

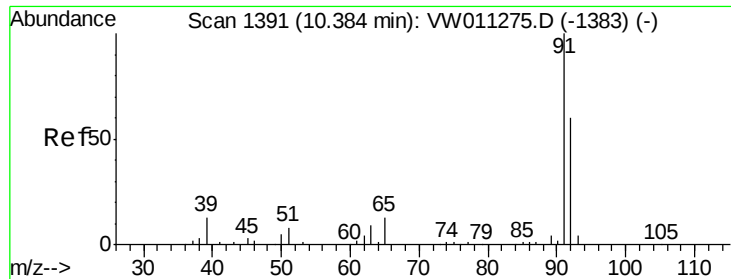
Tgt Ion: 75 Resp: 150151
 Ion Ratio Lower Upper
 75 100
 77 31.2 21.1 39.1



#43
 4-Methyl-2-pentanone
 Concen: 61.738 ug/L
 RT: 10.21 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: VW011296.D
 Acq: 16 Jul 2019 19:47

Tgt Ion: 43 Resp: 258079
 Ion Ratio Lower Upper
 43 100
 58 34.7 28.1 42.1
 100 11.9 9.3 13.9





#44

Toluene

Concen: 22.968 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

Instrument :

MSVOA_W

ClientSampleId :

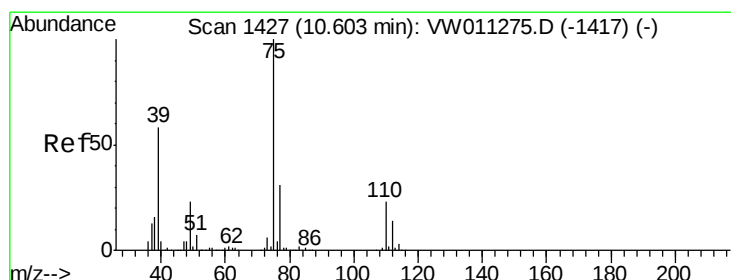
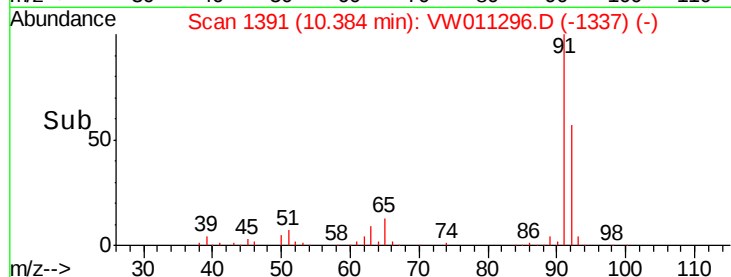
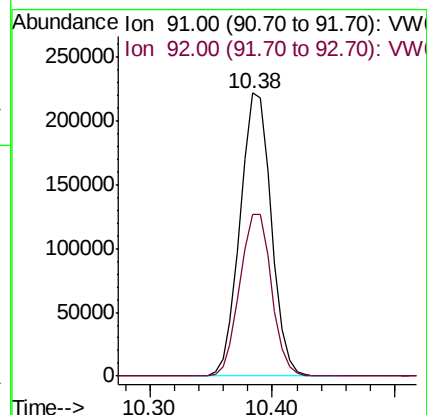
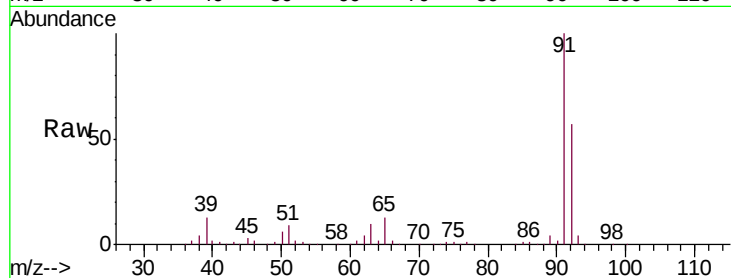
VSTD02509

Tgt Ion: 91 Resp: 391227

Ion Ratio Lower Upper

91 100

92 57.0 40.8 75.8



#45

trans-1,3-Dichloropropene

Concen: 23.211 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW011296.D

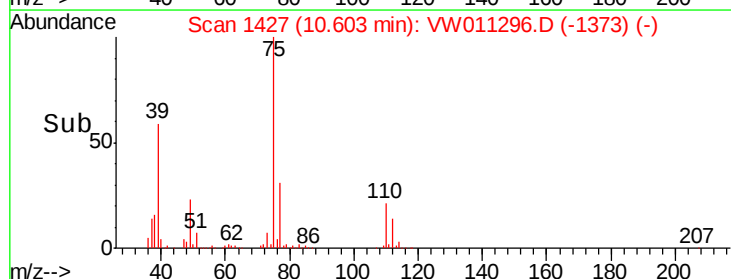
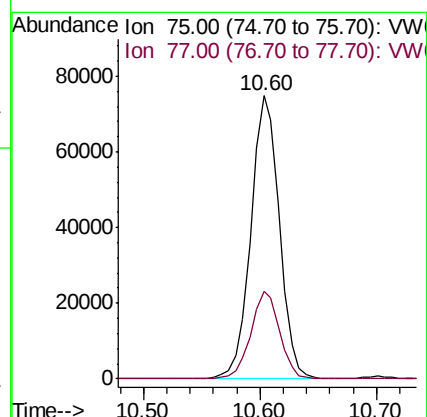
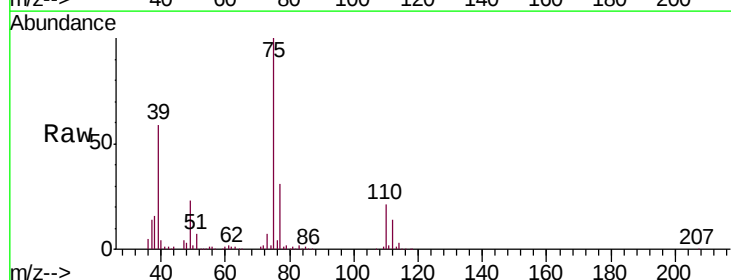
Acq: 16 Jul 2019 19:47

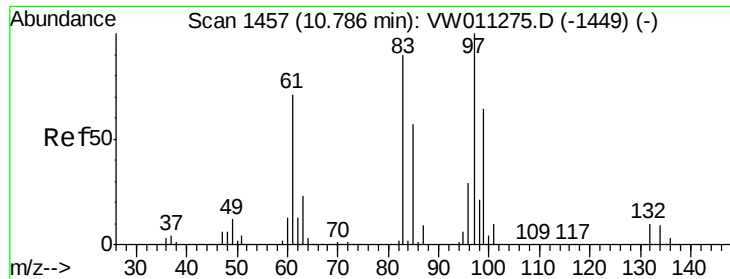
Tgt Ion: 75 Resp: 127785

Ion Ratio Lower Upper

75 100

77 31.1 22.3 41.5





#46

1,1,2-Trichloroethane

Concen: 24.199 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02509

Tgt Ion: 97 Resp: 75567

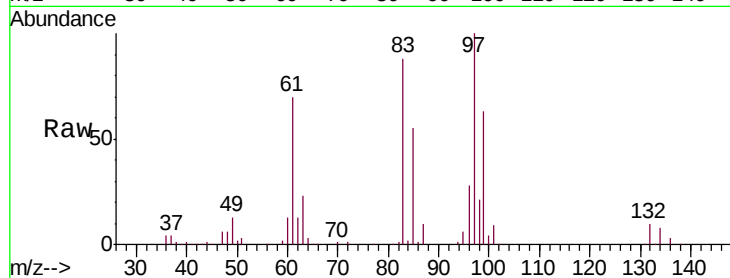
Ion Ratio Lower Upper

97 100

83 87.9 63.1 117.3

85 54.9 39.0 72.4

99 62.7 41.5 77.1

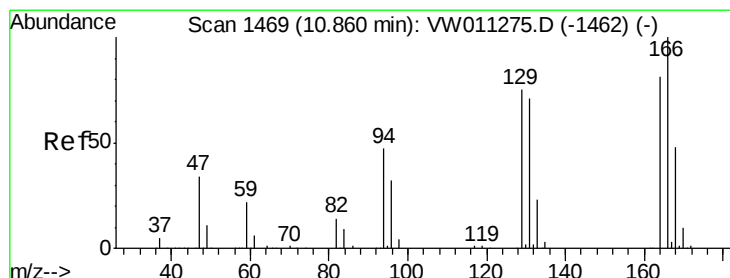
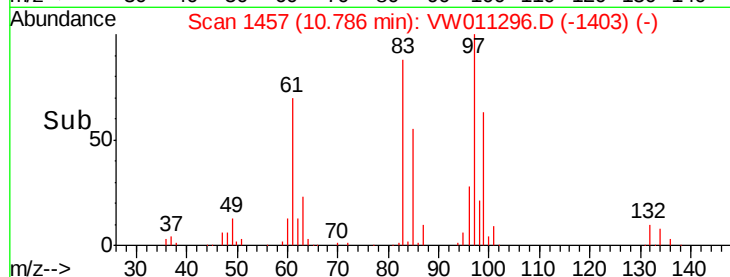
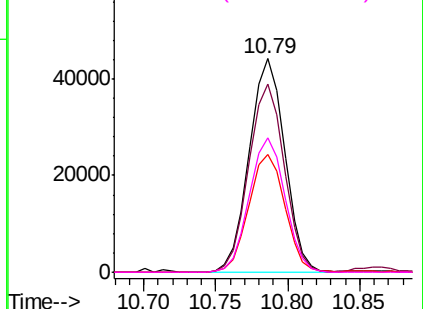


Abundance Ion 97.00 (96.70 to 97.70): VW

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: 22.367 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

Tgt Ion: 164 Resp: 70199

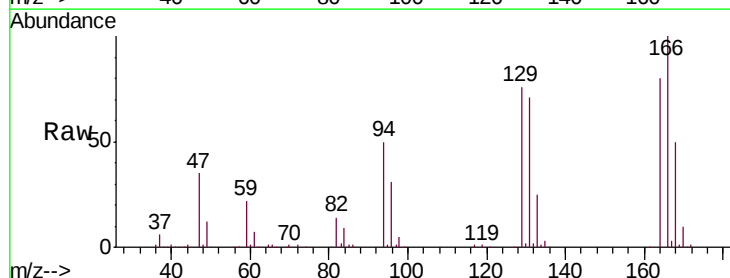
Ion Ratio Lower Upper

164 100

129 95.8 68.5 127.1

131 89.2 64.8 120.4

166 125.5 87.9 163.3

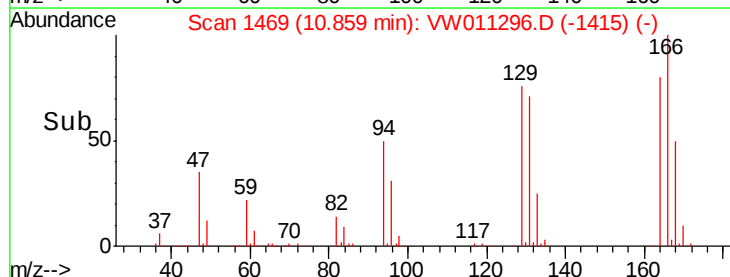
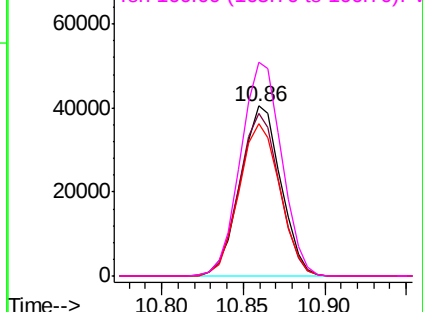


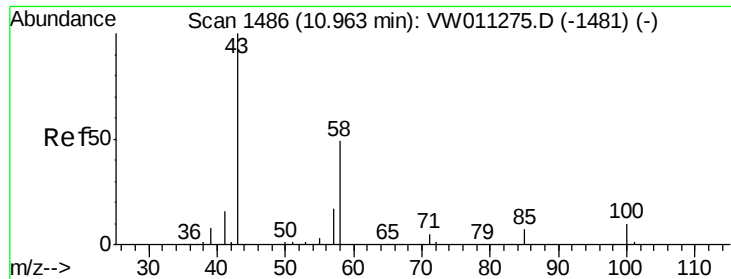
Abundance Ion 164.00 (163.70 to 164.70): V

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

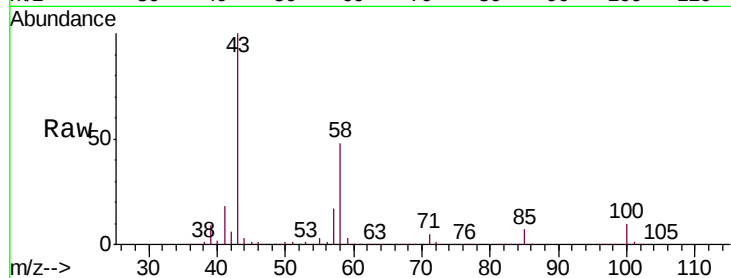




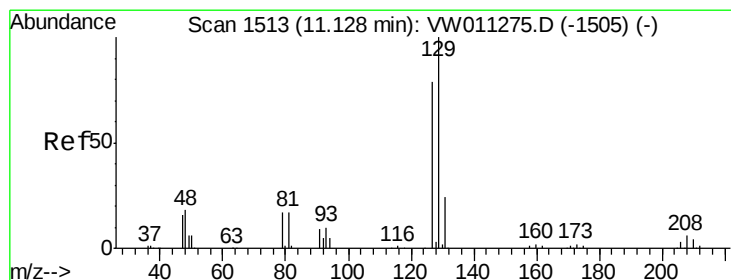
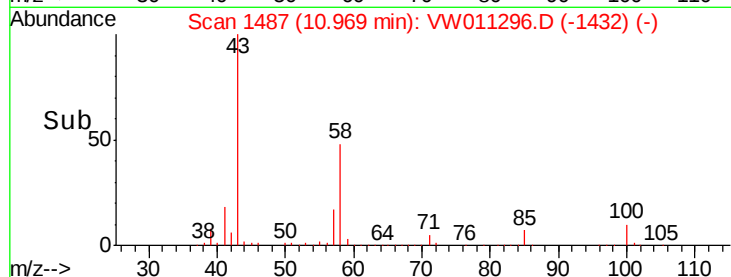
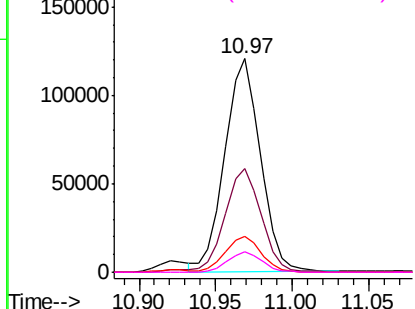
#49
2-Hexanone
Concen: 64.022 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.01 min
Lab File: VW011296.D
Acq: 16 Jul 2019 19:47

Instrument :
MSVOA_W
ClientSampleId :
VSTD02509

Tgt Ion:	43	Resp:	194803
Ion	Ratio	Lower	Upper
43	100		
58	49.2	38.4	57.6
57	17.0	13.3	19.9
100	9.5	7.3	10.9

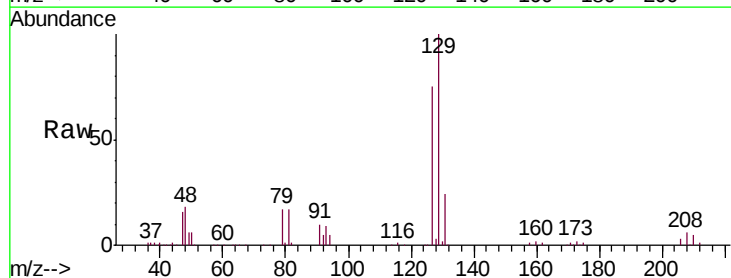


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW
Ion 57.00 (56.70 to 57.70): VW
Ion 100.00 (99.70 to 100.70): VW

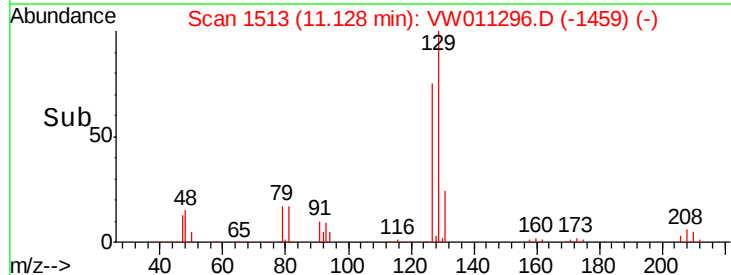
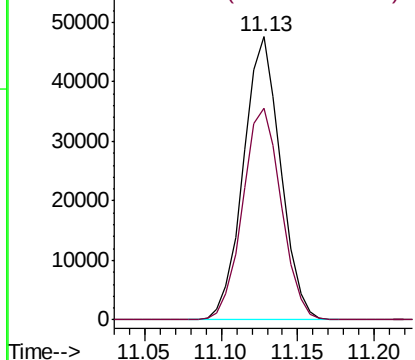


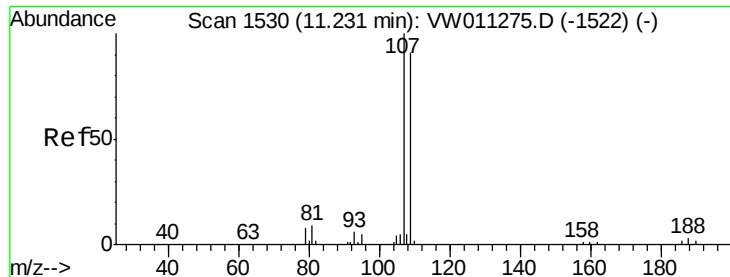
#50
Dibromochloromethane
Concen: 24.173 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW011296.D
Acq: 16 Jul 2019 19:47

Tgt Ion:	129	Resp:	80383
Ion	Ratio	Lower	Upper
129	100		
127	74.6	53.3	99.1



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





#51

1,2-Dibromoethane

Concen: 24.416 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02509

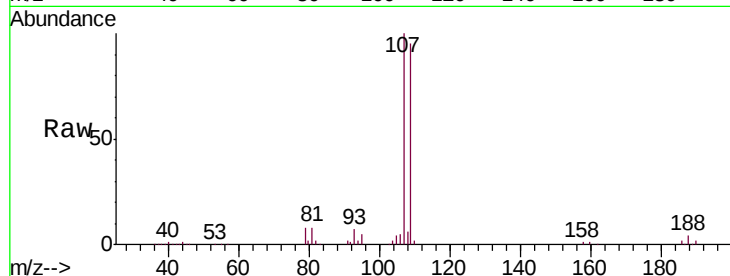
Tgt Ion:107 Resp: 73622

Ion Ratio Lower Upper

107 100

109 94.6 64.3 119.3

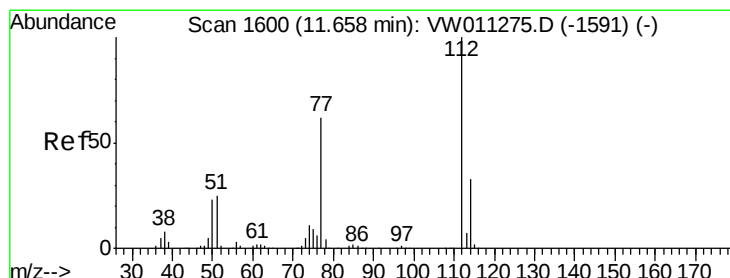
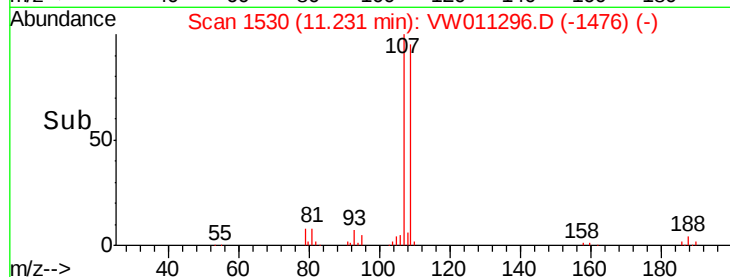
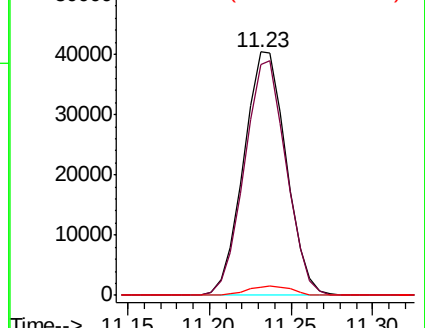
188 3.6 3.2 4.8



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: 22.467 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

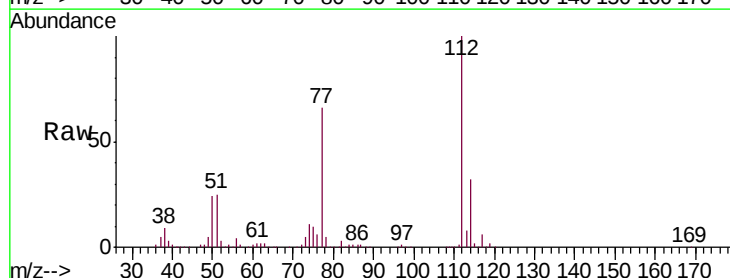
Tgt Ion:112 Resp: 233795

Ion Ratio Lower Upper

112 100

77 65.5 51.2 76.8

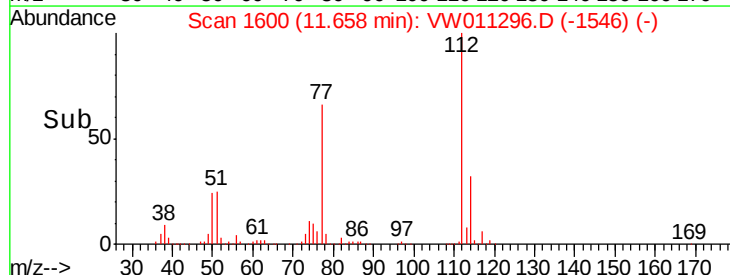
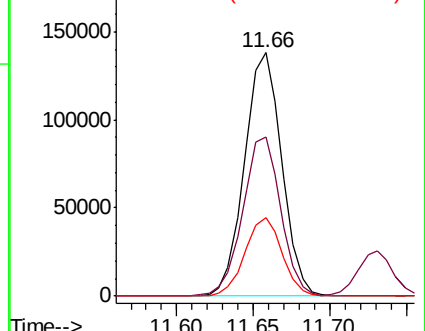
114 32.4 22.0 40.8

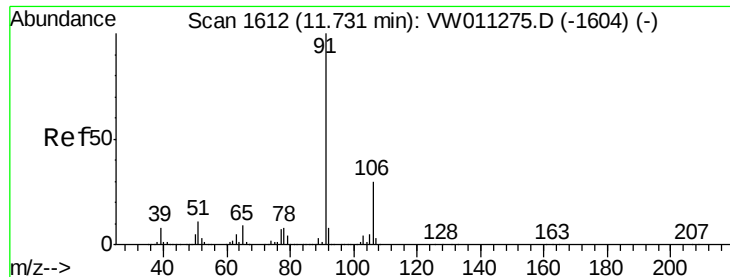


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 22.846 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

Instrument :

MSVOA_W

ClientSampleId :

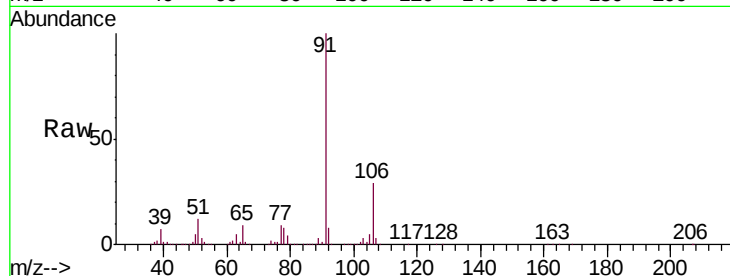
VSTD02509

Tgt Ion: 91 Resp: 441400

Ion Ratio Lower Upper

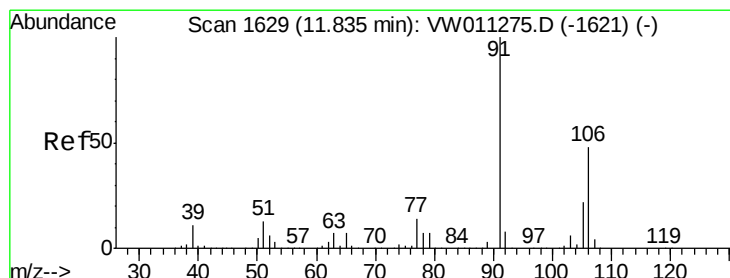
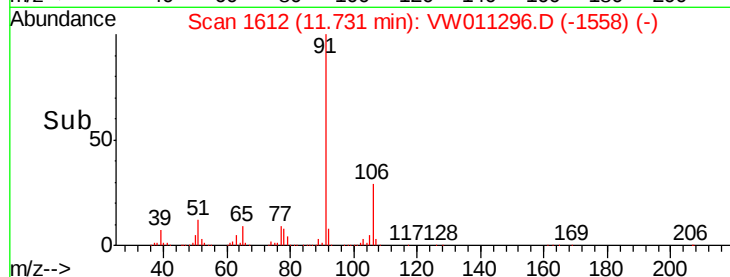
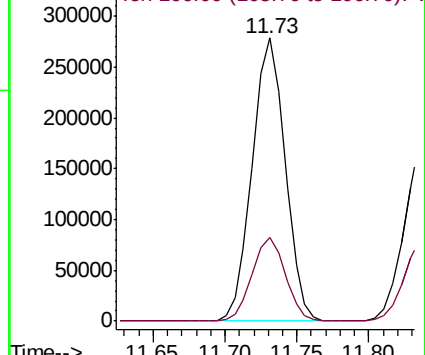
91 100

106 29.5 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 22.725 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.01 min

Lab File: VW011296.D

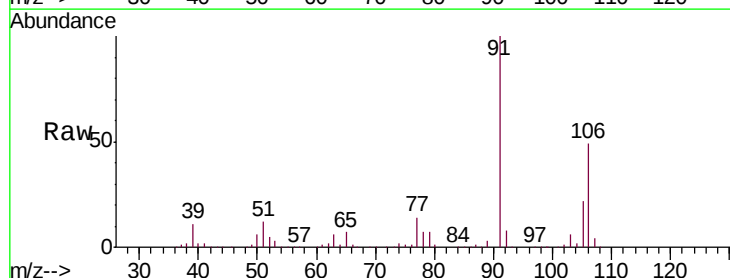
Acq: 16 Jul 2019 19:47

Tgt Ion: 106 Resp: 159408

Ion Ratio Lower Upper

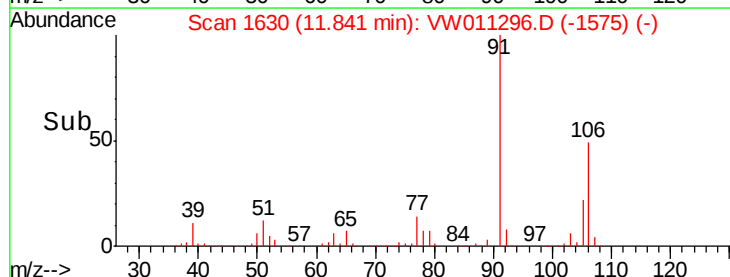
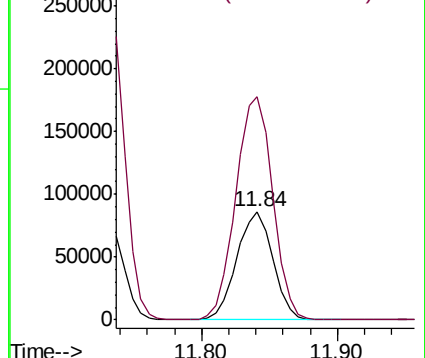
106 100

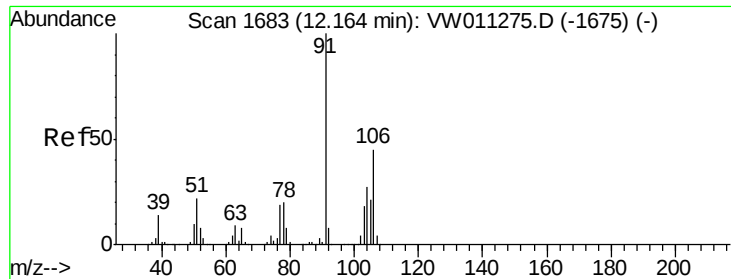
91 206.1 142.6 264.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

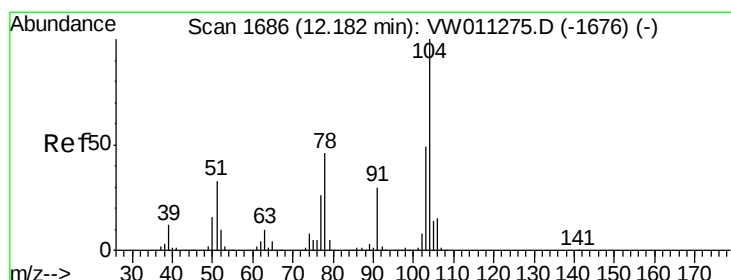
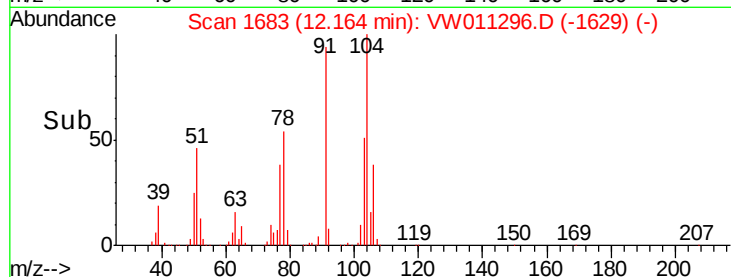
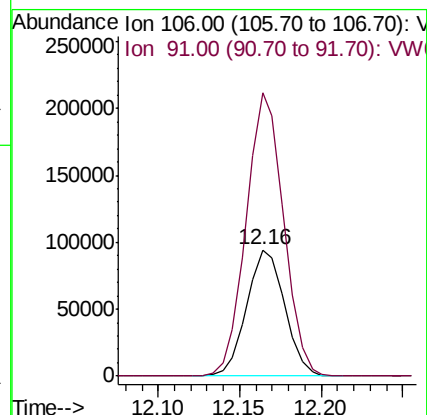
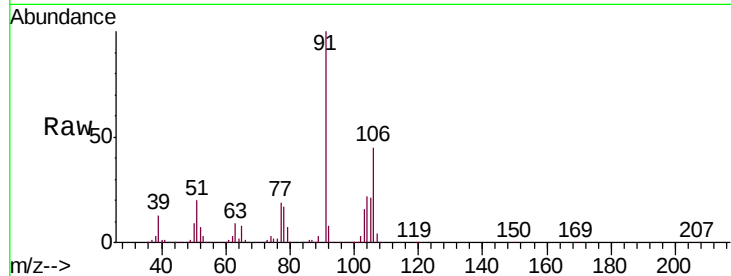




#55
o-xylene
Concen: 22.922 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW011296.D
Acq: 16 Jul 2019 19:47

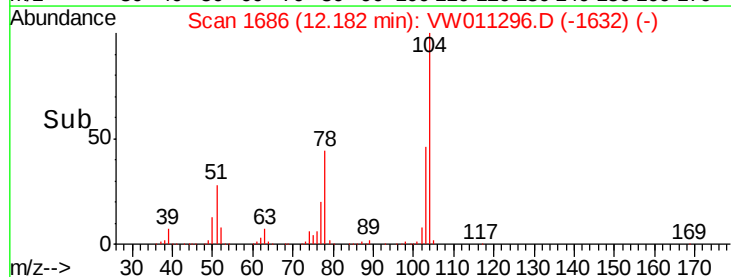
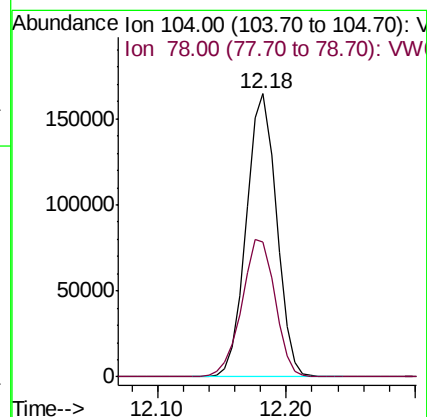
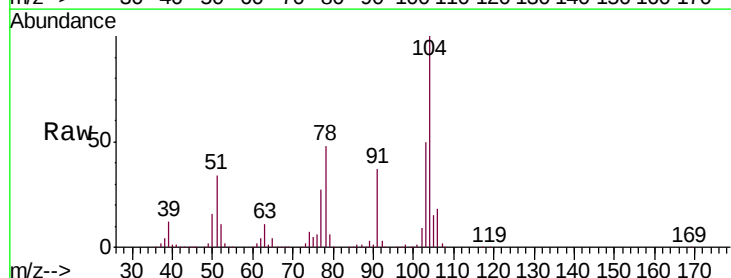
Instrument :
MSVOA_W
ClientSampleId :
VSTD02509

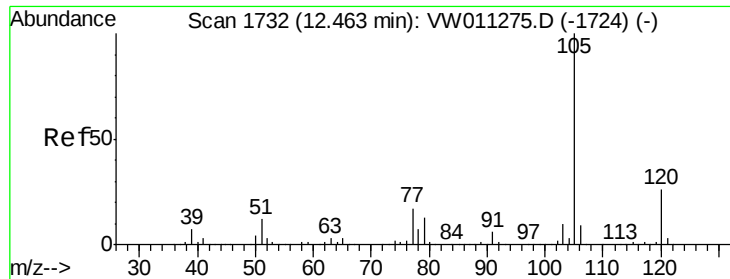
Tgt Ion:106 Resp: 152962
Ion Ratio Lower Upper
106 100
91 224.3 154.6 287.2



#56
Styrene
Concen: 23.261 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW011296.D
Acq: 16 Jul 2019 19:47

Tgt Ion:104 Resp: 266276
Ion Ratio Lower Upper
104 100
78 47.7 33.7 62.7





#57

Isopropylbenzene

Concen: 23.397 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02509

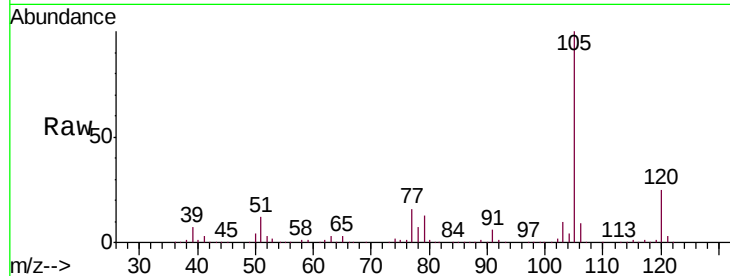
Tgt Ion:105 Resp: 426188

Ion Ratio Lower Upper

105 100

120 25.6 20.7 31.1

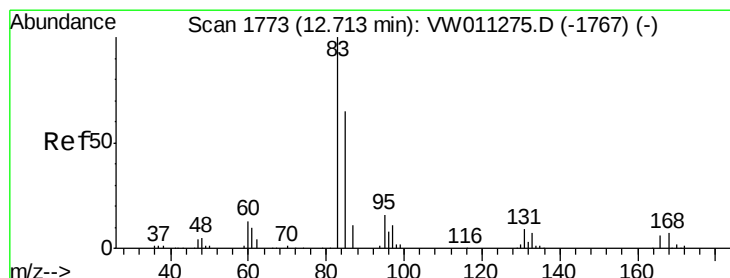
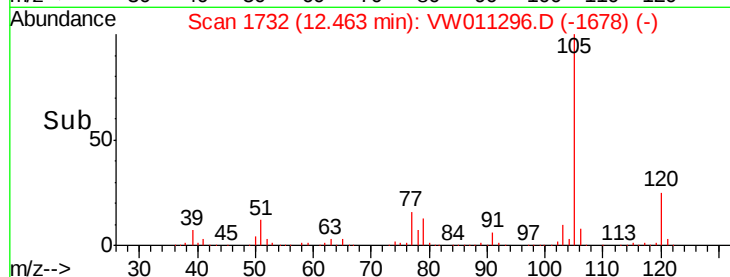
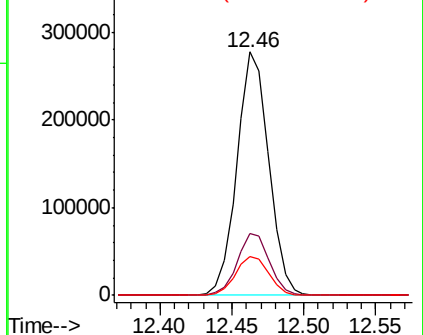
77 16.8 13.5 20.3



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: 27.344 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

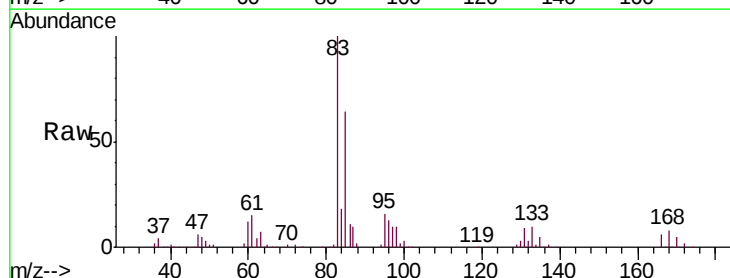
Tgt Ion: 83 Resp: 113596

Ion Ratio Lower Upper

83 100

85 63.9 44.0 81.6

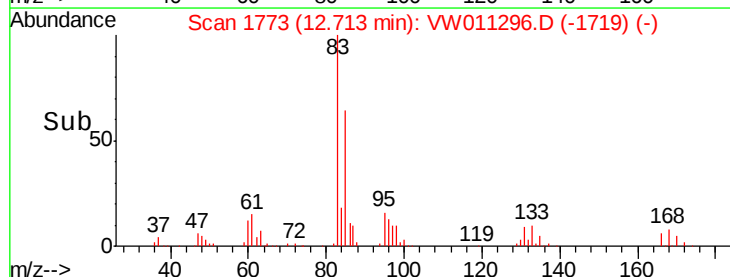
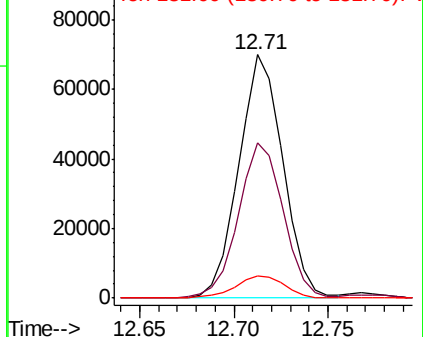
131 9.4 6.7 10.1

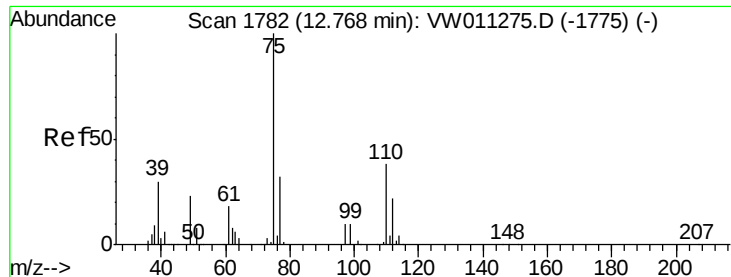


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 27.952 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

Instrument :

MSVOA_W

ClientSampleId :

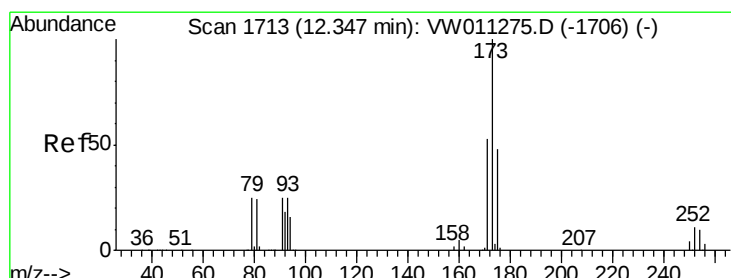
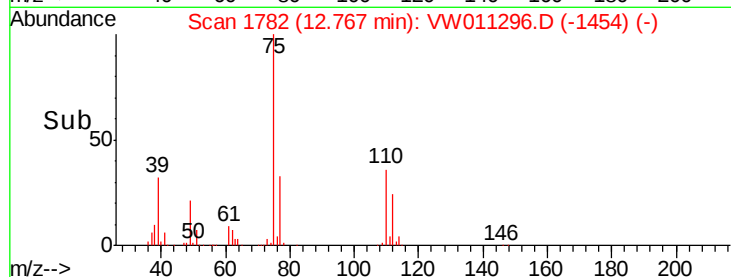
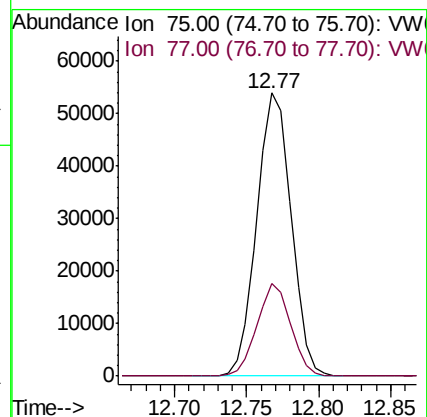
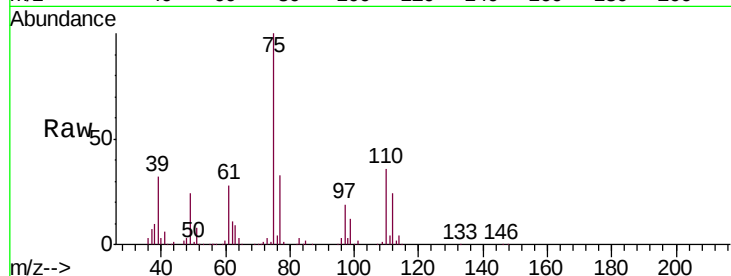
VSTD02509

Tgt Ion: 75 Resp: 89175

Ion Ratio Lower Upper

75 100

77 31.9 25.4 38.0



#62

Bromoform

Concen: 26.004 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

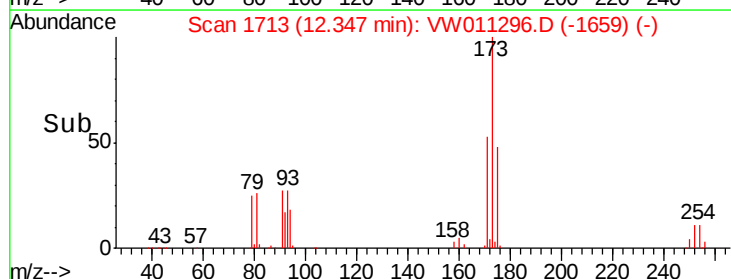
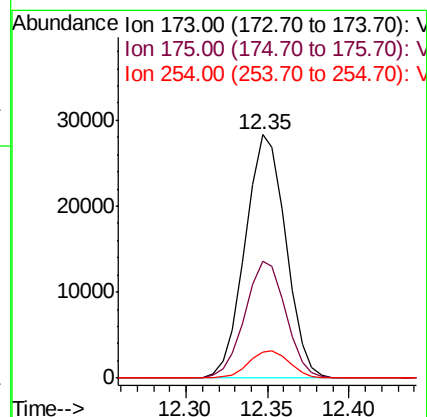
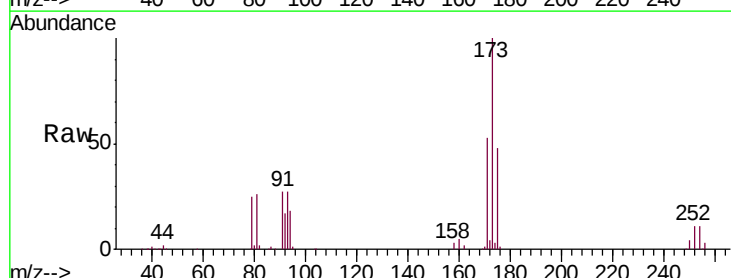
Tgt Ion: 173 Resp: 49181

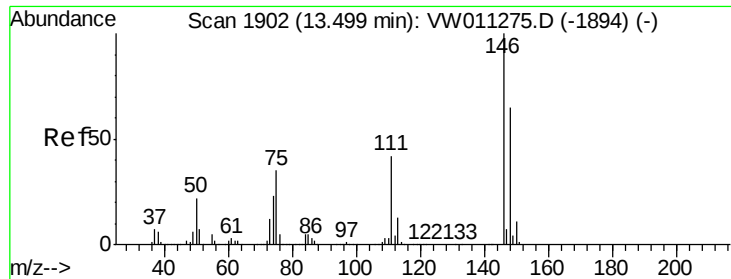
Ion Ratio Lower Upper

173 100

175 48.1 39.0 58.6

254 11.0 8.5 12.7

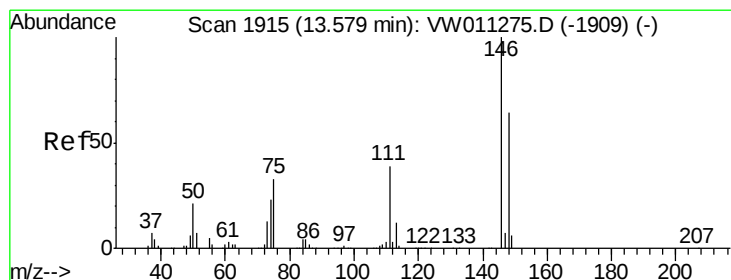
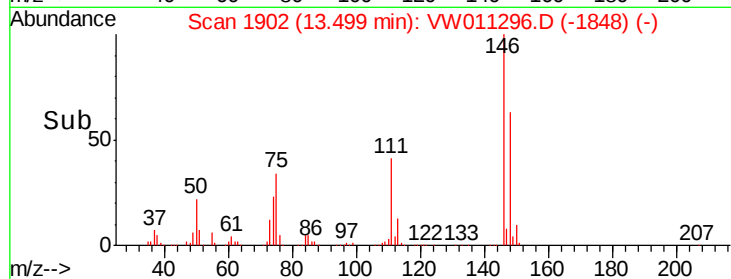
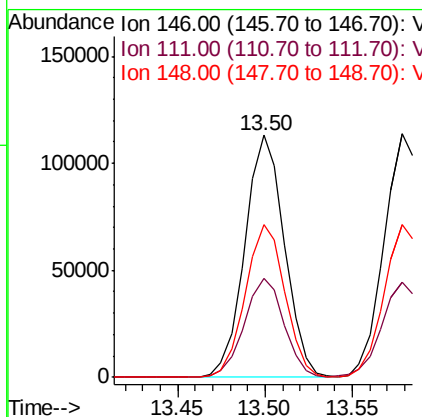
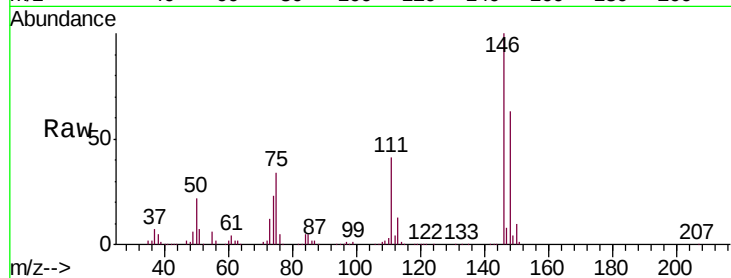




#63
 1,3-Dichlorobenzene
 Concen: 22.786 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW011296.D
 Acq: 16 Jul 2019 19:47

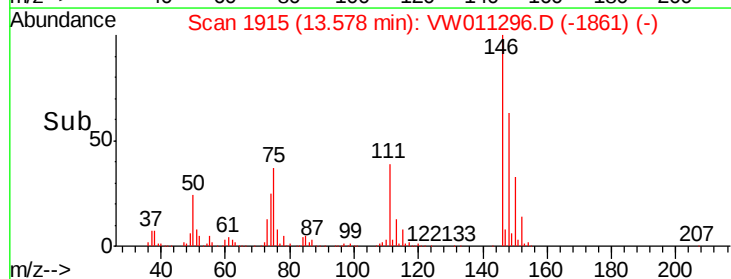
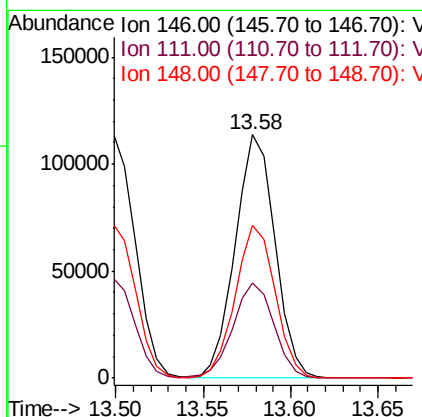
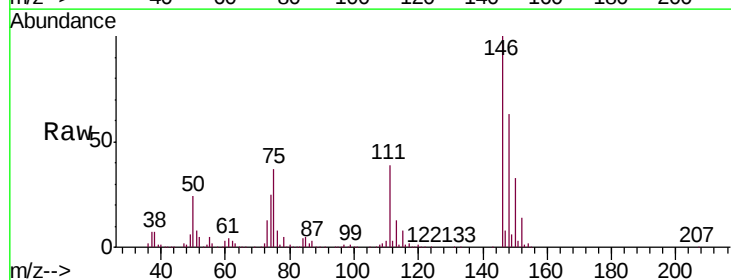
Instrument :
 MSVOA_W
 ClientSampled :
 VSTD02509

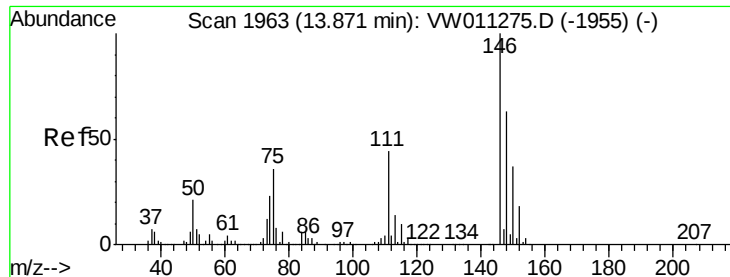
Tgt Ion:146 Resp: 177899
 Ion Ratio Lower Upper
 146 100
 111 40.8 29.0 53.8
 148 63.1 44.4 82.5



#64
 1,4-Dichlorobenzene
 Concen: 22.538 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW011296.D
 Acq: 16 Jul 2019 19:47

Tgt Ion:146 Resp: 180133
 Ion Ratio Lower Upper
 146 100
 111 39.0 27.5 51.1
 148 62.8 43.8 81.3





#65

1,2-Dichlorobenzene

Concen: 23.577 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02509

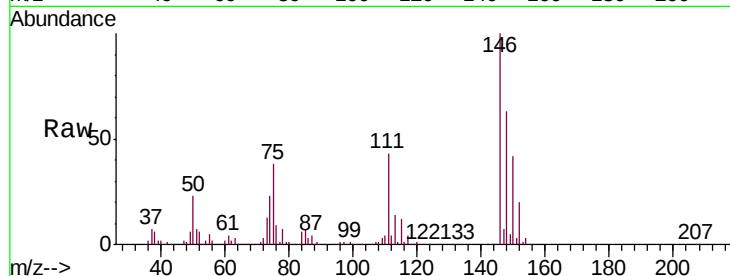
Tgt Ion:146 Resp: 171343

Ion Ratio Lower Upper

146 100

111 43.1 34.1 51.1

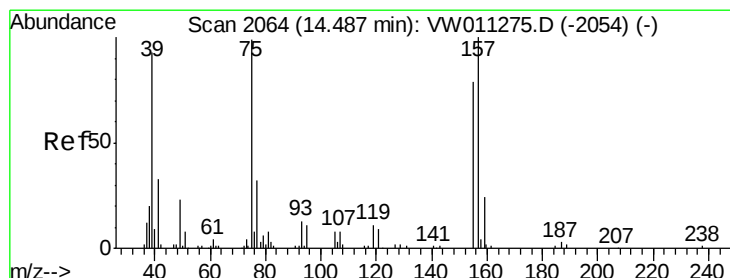
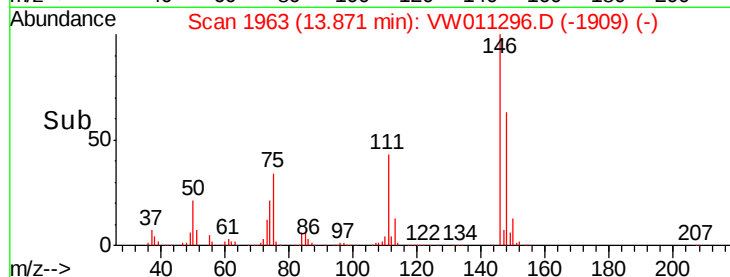
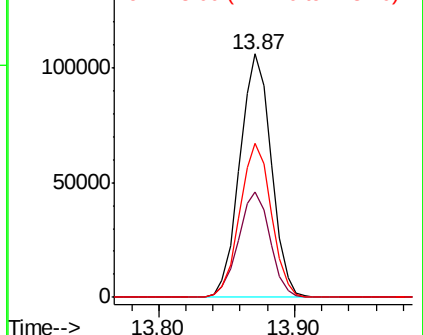
148 63.0 51.0 76.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 32.950 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

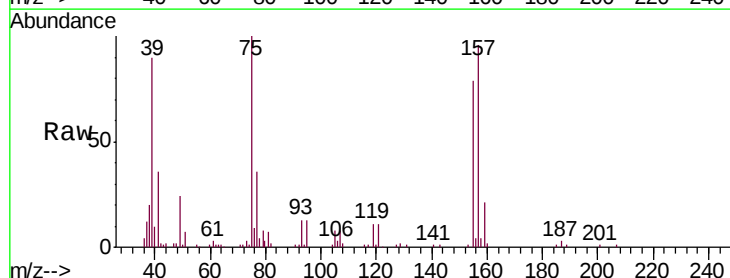
Tgt Ion: 75 Resp: 23510

Ion Ratio Lower Upper

75 100

157 96.5 75.3 112.9

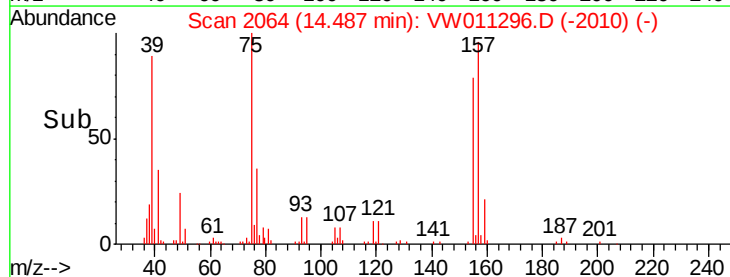
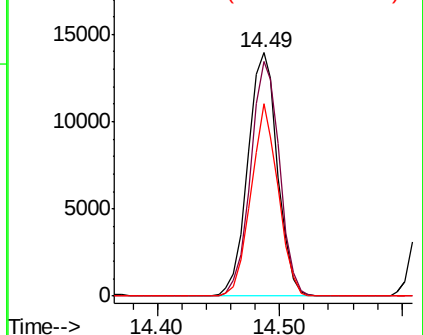
155 79.1 60.2 90.2

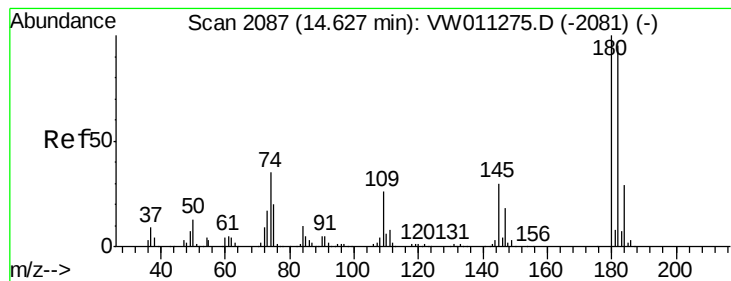


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V





#67

1,3,5-Trichlorobenzene

Concen: 22.557 ug/L

RT: 14.63 min Scan# 2088

Delta R.T. 0.01 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02509

Tgt Ion:180 Resp: 133433

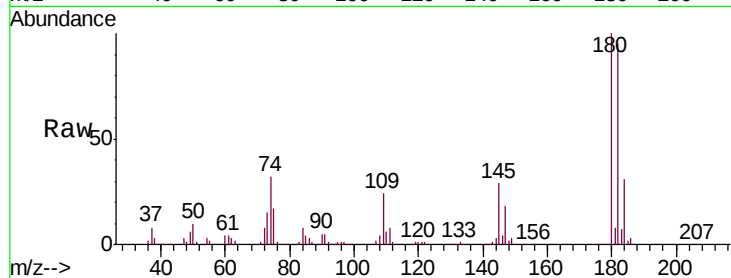
Ion Ratio Lower Upper

180 100

182 95.0 77.0 115.4

184 30.9 24.3 36.5

145 29.7 24.2 36.2

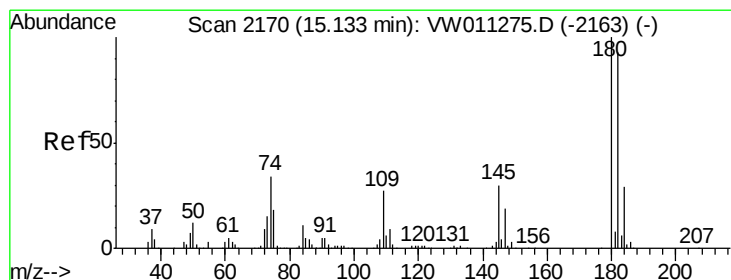
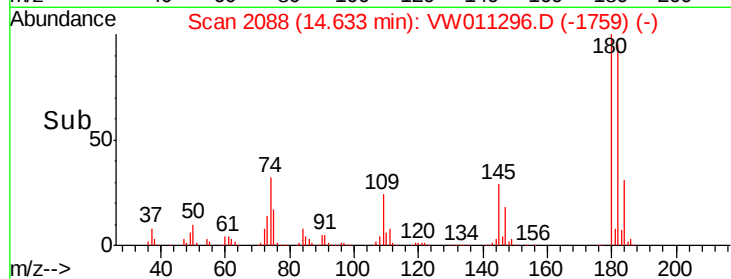
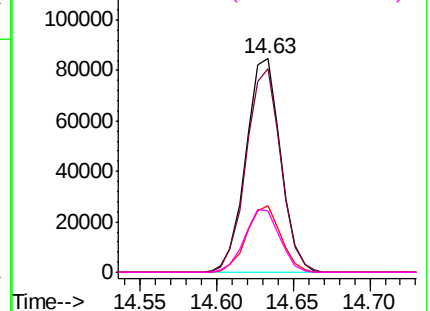


Abundance Ion 180.00 (179.70 to 180.70): V

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: 22.515 ug/L

RT: 15.13 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

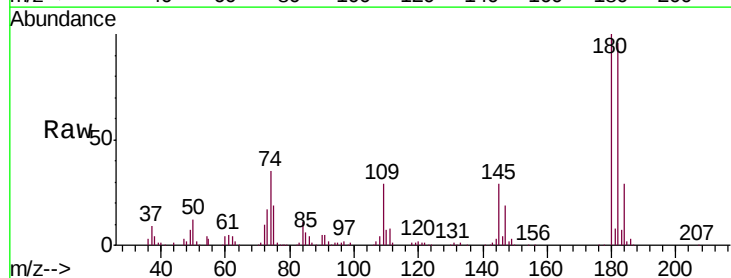
Tgt Ion:180 Resp: 111579

Ion Ratio Lower Upper

180 100

182 96.5 77.0 115.6

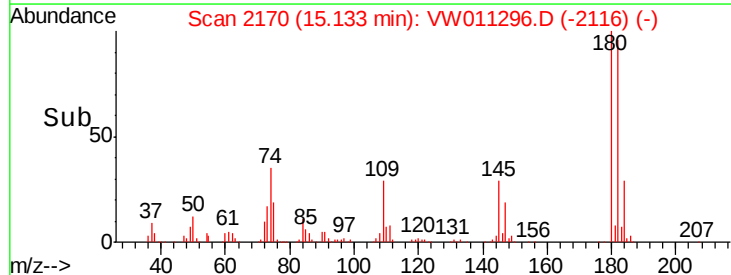
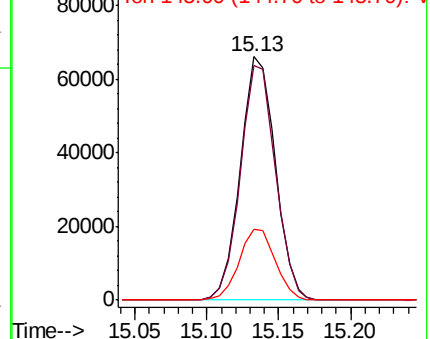
145 30.1 24.5 36.7

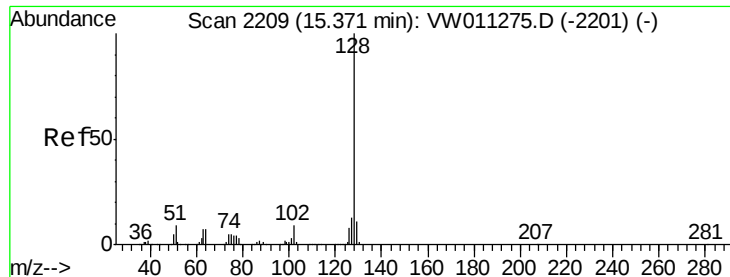


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 28.013 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02509

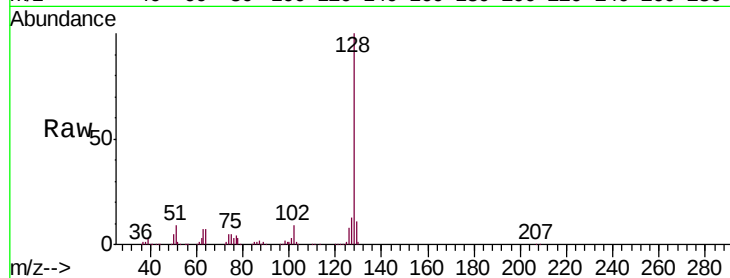
Tgt Ion:128 Resp: 290746

Ion Ratio Lower Upper

128 100

129 11.0 9.0 13.4

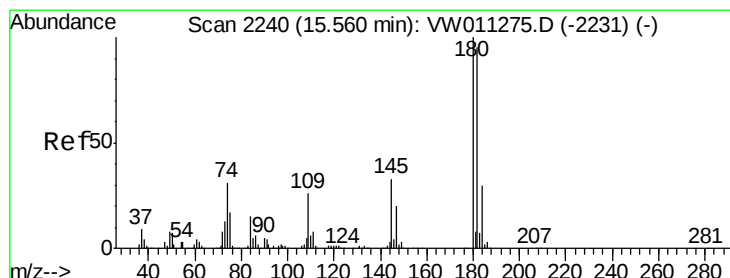
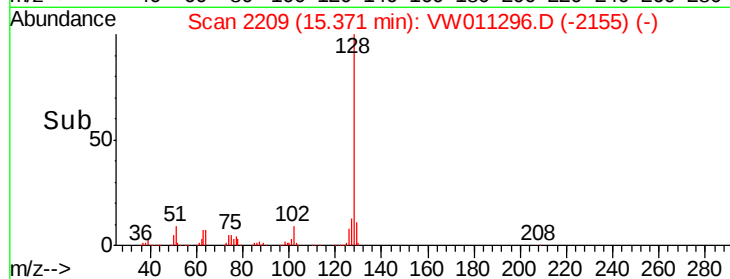
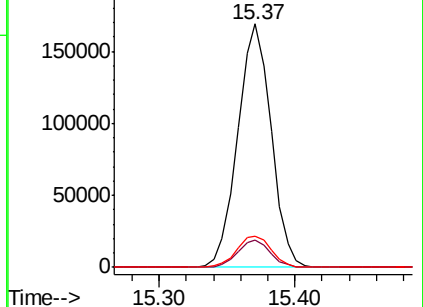
127 13.5 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 23.846 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW011296.D

Acq: 16 Jul 2019 19:47

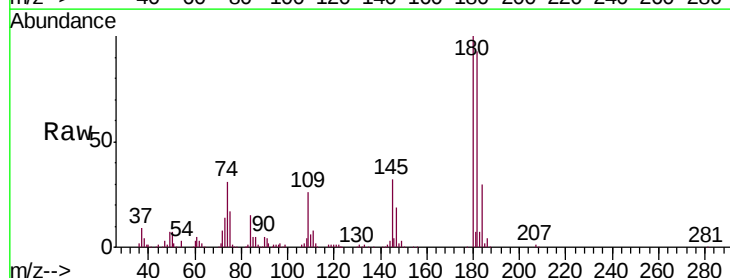
Tgt Ion:180 Resp: 108126

Ion Ratio Lower Upper

180 100

182 94.1 76.4 114.6

145 32.3 25.5 38.3



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

