

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW073120\
 Data File : VW016025.D
 Acq On : 31 Jul 2020 17:23
 Operator : SY/VA
 Sample : VSTDCCC025EC
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02522

Quant Time: Aug 01 02:50:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM072020S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Aug 01 02:48:19 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	415679	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	383615	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	181815	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	98071	16.72	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	66.88%
7) Chloroethane-d5	2.89	69	96323	20.22	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	80.88%
10) 1,1-Dichloroethene-d2	4.02	63	250813	21.15	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	84.60%
20) 2-Butanone-d5	7.09	46	102975	66.83	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	133.66%
24) Chloroform-d	7.65	84	272567	23.35	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	93.40%
26) 1,2-Dichloroethane-d4	8.31	65	145655	22.73	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	90.92%
29) Benzene-d6	8.28	84	523795	22.43	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	89.72%
33) 1,2-Dichloropropane-d6	9.27	67	170498	24.36	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	97.44%
37) Toluene-d8	10.33	98	473653	22.39	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	89.56%
38) trans-1,3-Dichloropropene-	10.58	79	68584	22.99	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	91.96%
39) 2-Hexanone-d5	10.93	63	81777	70.16	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	140.32%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	160709	29.87	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	119.48%
61) 1,2-Dichlorobenzene-d4	13.86	152	174050	24.55	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	98.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	84601	24.052	ug/L	93
3) Chloromethane	2.21	50	111409	26.189	ug/L	100
5) Vinyl chloride	2.37	62	167201	25.483	ug/L	99
6) Bromomethane	2.79	94	97024	24.787	ug/L	98
8) Chloroethane	2.93	64	102642	26.704	ug/L	98
9) Trichlorofluoromethane	3.26	101	129710	29.410	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	147674	27.392	ug/L	97
12) 1,1-Dichloroethene	4.04	96	147465	27.597	ug/L	87
13) Acetone	4.15	43	84250	65.113	ug/L	96
14) Carbon disulfide	4.38	76	417045	24.713	ug/L	100
15) Methyl Acetate	4.68	43	81329	33.336	ug/L	97
16) Methylene chloride	4.92	84	184260	27.052	ug/L	91
17) Methyl tert-butyl Ether	5.43	73	238806	31.604	ug/L	96
18) trans-1,2-Dichloroethene	5.43	96	153306	27.169	ug/L	98
19) 1,1-Dichloroethane	6.22	63	286916	27.593	ug/L	98
21) 2-Butanone	7.18	43	112186	70.115	ug/L	100
22) cis-1,2-Dichloroethene	7.17	96	166951	28.280	ug/L	96

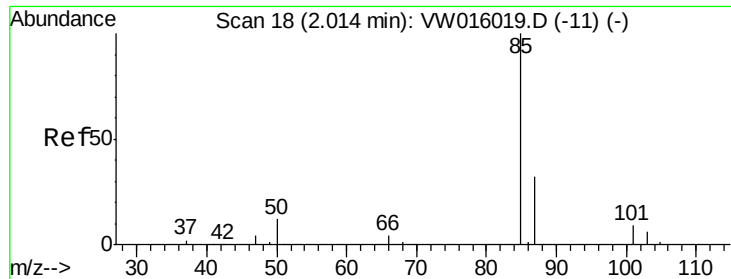
Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW073120\
 Data File : VW016025.D
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 Sample : VSTDCCC025EC
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Quant Time: Aug 01 02:50:29 2020
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 Quant Title : VOC Analysis
 QLast Update : Sat Aug 01 02:48:19 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.52	128	76396	29.511	ug/L	99
25) Chloroform	7.68	83	285032	27.658	ug/L	99
27) 1,2-Dichloroethane	8.40	62	185120	26.399	ug/L	96
30) Cyclohexane	7.96	56	258941	26.770	ug/L	100
31) 1,1,1-Trichloroethane	7.88	97	238397	26.615	ug/L	98
32) Carbon tetrachloride	8.07	117	210333	25.895	ug/L	99
34) Benzene	8.33	78	642285	27.567	ug/L	100
35) Trichloroethene	9.10	95	162303	26.333	ug/L	97
36) Methylcyclohexane	9.34	83	285317	26.979	ug/L	98
40) 1,2-Dichloropropane	9.37	63	163127	28.262	ug/L	100
41) Bromodichloromethane	9.65	83	202906	27.221	ug/L	100
42) cis-1,3-Dichloropropene	10.07	75	251021	28.555	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	225212	66.848	ug/L	96
44) Toluene	10.39	91	679889	27.822	ug/L	98
45) trans-1,3-Dichloropropene	10.61	75	221903	29.122	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	126061	30.372	ug/L	98
47) Tetrachloroethene	10.87	164	128948	26.954	ug/L	94
49) 2-Hexanone	10.97	43	164213	68.686	ug/L	96
50) Dibromochloromethane	11.13	129	141176	29.379	ug/L	97
51) 1,2-Dibromoethane	11.24	107	118691	29.892	ug/L	99
52) Chlorobenzene	11.66	112	433342	27.675	ug/L	99
53) Ethylbenzene	11.73	91	773657	28.155	ug/L	98
54) m,p-Xylene	11.84	106	290256	28.233	ug/L	98
55) o-xylene	12.17	106	278770	28.797	ug/L	93
56) Styrene	12.18	104	482677	29.320	ug/L	99
57) Isopropylbenzene	12.47	105	762850	28.948	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	12.72	83	160150	32.859	ug/L	96
59) 1,2,3-Trichloropropane	12.77	75	117894	32.284	ug/L	99
62) Bromoform	12.35	173	81378	30.426	ug/L	99
63) 1,3-Dichlorobenzene	13.51	146	333382	28.650	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	328184	27.789	ug/L	95
65) 1,2-Dichlorobenzene	13.87	146	305240	28.879	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.49	75	25942	32.608	ug/L	94
67) 1,3,5-Trichlorobenzene	14.63	180	239588	29.282	ug/L	98
68) 1,2,4-trichlorobenzene	15.13	180	199020	30.623	ug/L	98
69) Naphthalene	15.37	128	428435	34.993	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	180481	31.168	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 24.052 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

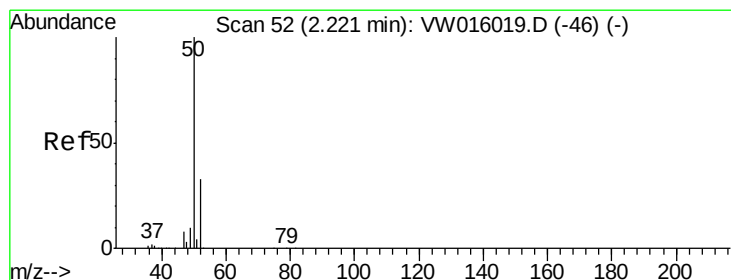
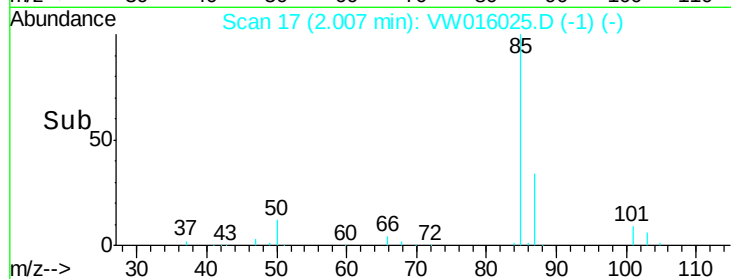
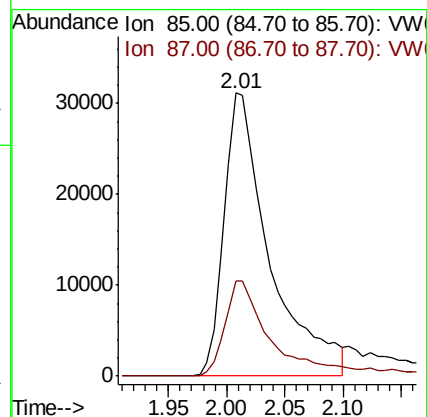
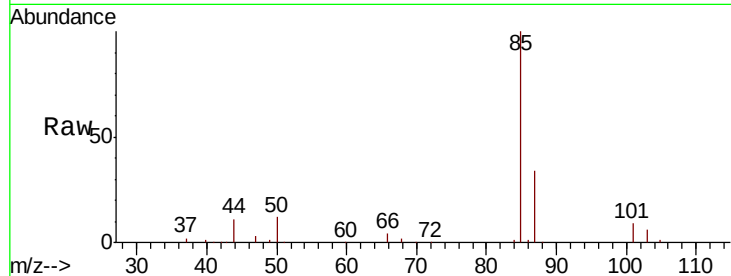
VSTD02522

Tot Ion: 85 Resp: 84601

Ion Ratio Lower Upper

85 100

87 33.8 21.0 39.0



#3

Chloromethane

Concen: 26.189 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW016025.D

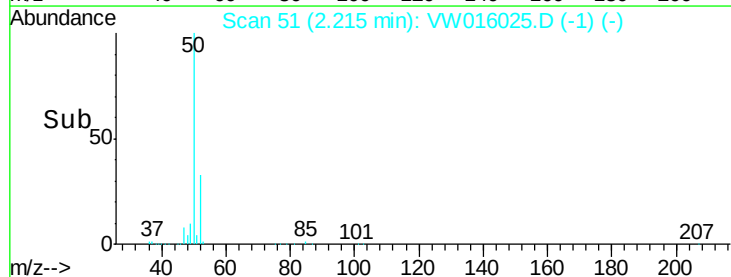
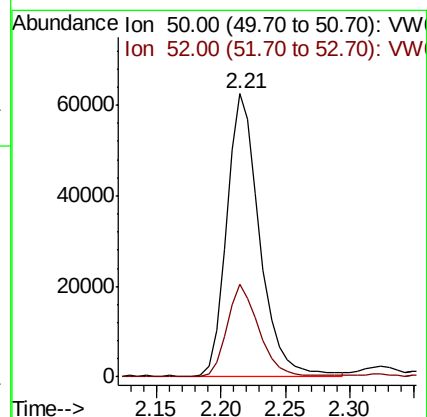
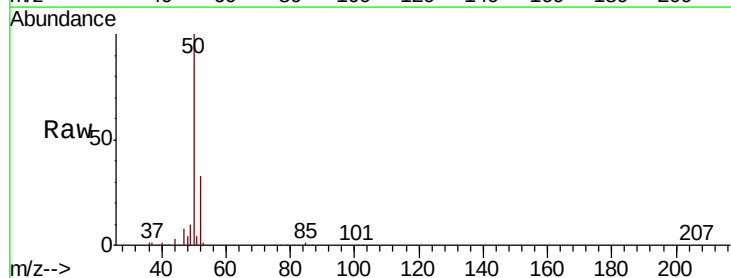
Acq: 31 Jul 2020 17:23

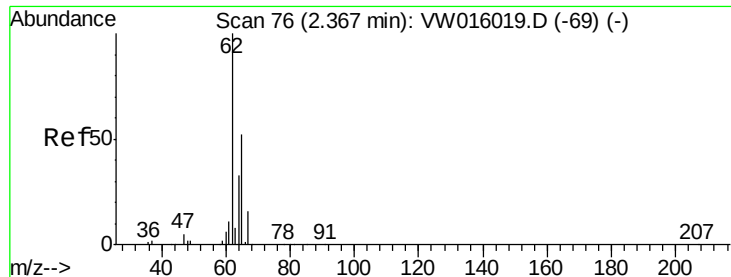
Tgt Ion: 50 Resp: 111409

Ion Ratio Lower Upper

50 100

52 32.5 22.8 42.4





#5

Vinyl chloride

Concen: 25.483 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

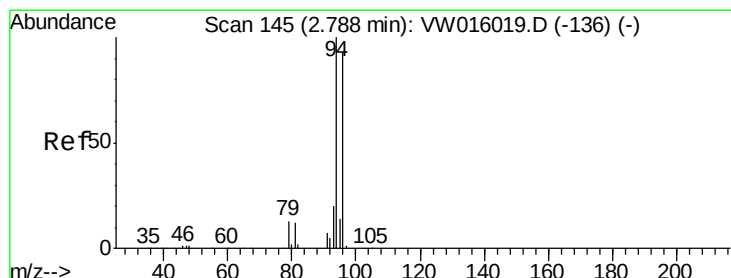
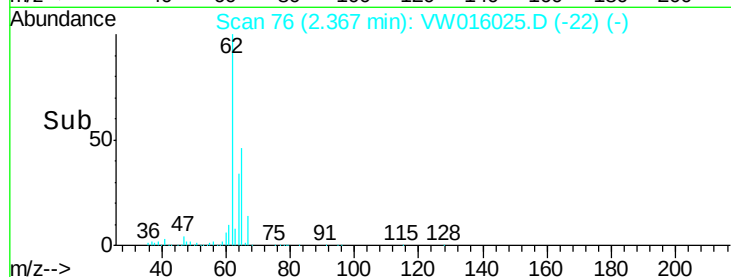
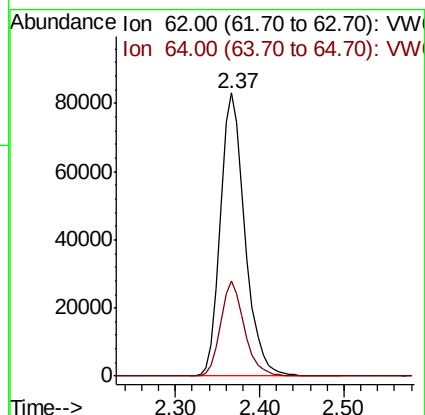
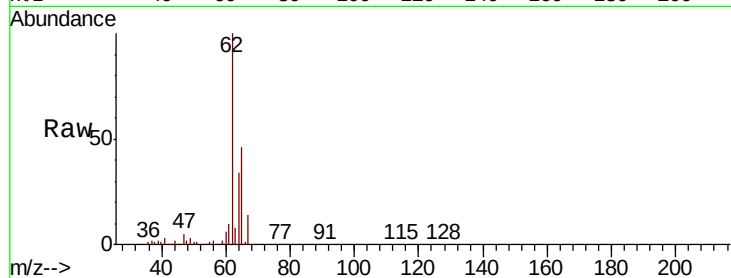
VSTD02522

Tot Ion: 62 Resp: 167201

Ion Ratio Lower Upper

62 100

64 33.8 23.2 43.0



#6

Bromomethane

Concen: 24.787 ug/L

RT: 2.79 min Scan# 145

Delta R.T. -0.00 min

Lab File: VW016025.D

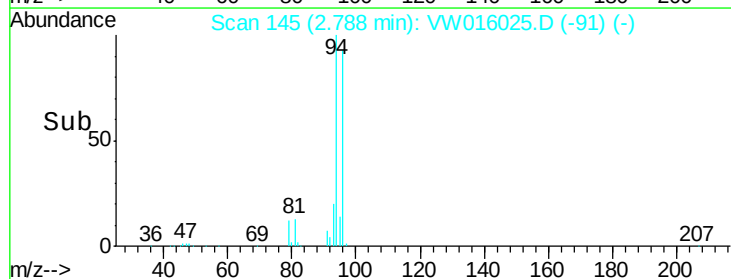
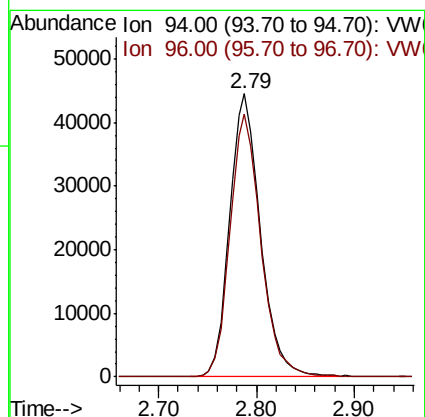
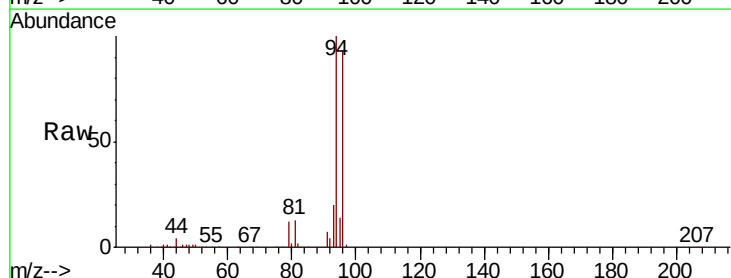
Acq: 31 Jul 2020 17:23

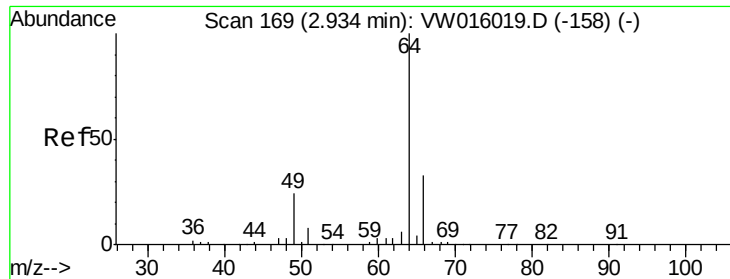
Tgt Ion: 94 Resp: 97024

Ion Ratio Lower Upper

94 100

96 93.2 9.5 180.1





#8

Chloroethane

Concen: 26.704 ug/L

RT: 2.93 min Scan# 168

Delta R.T. -0.01 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

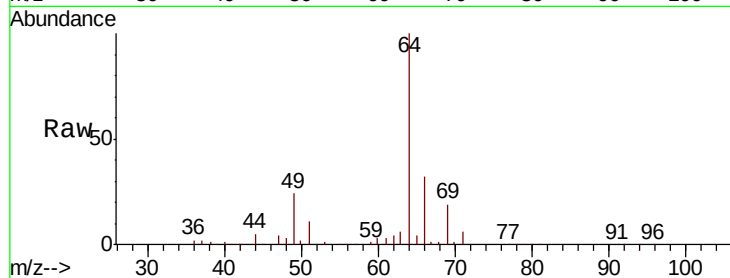
VSTD02522

Tot Ion: 64 Resp: 102642

Ion Ratio Lower Upper

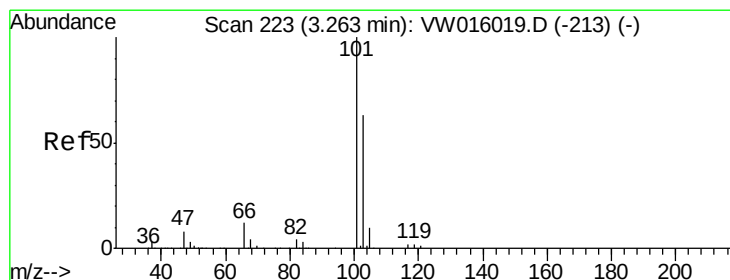
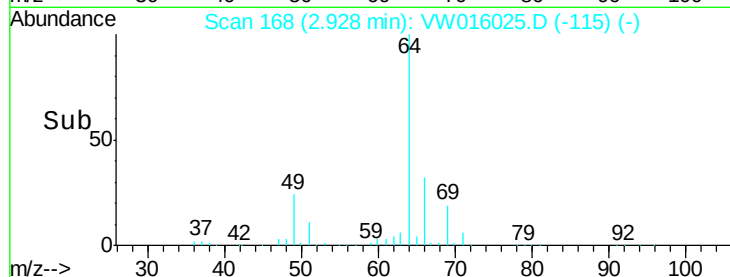
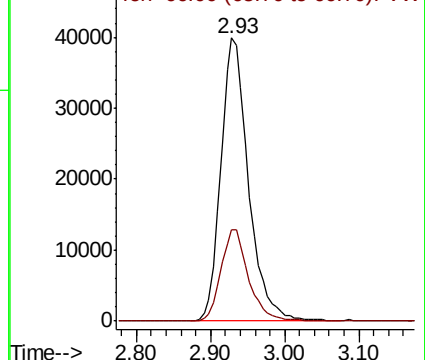
64 100

66 32.2 21.8 40.4



Abundance Ion 64.00 (63.70 to 64.70): VW

Ion 66.00 (65.70 to 66.70): VW



#9

Trichlorofluoromethane

Concen: 29.410 ug/L

RT: 3.26 min Scan# 223

Delta R.T. -0.00 min

Lab File: VW016025.D

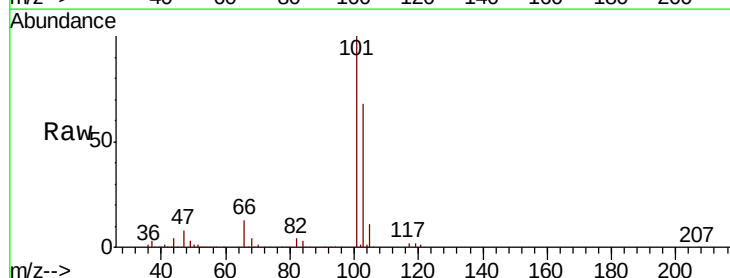
Acq: 31 Jul 2020 17:23

Tgt Ion: 101 Resp: 129710

Ion Ratio Lower Upper

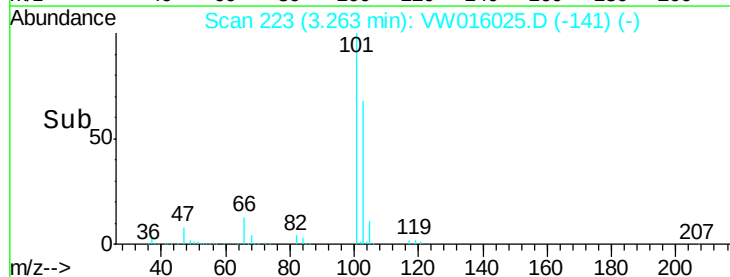
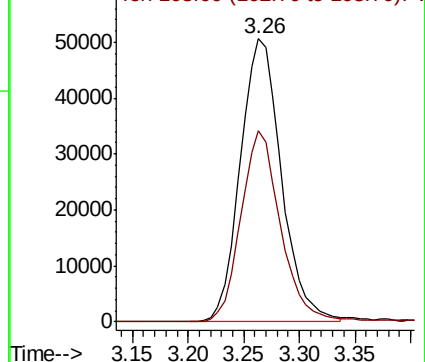
101 100

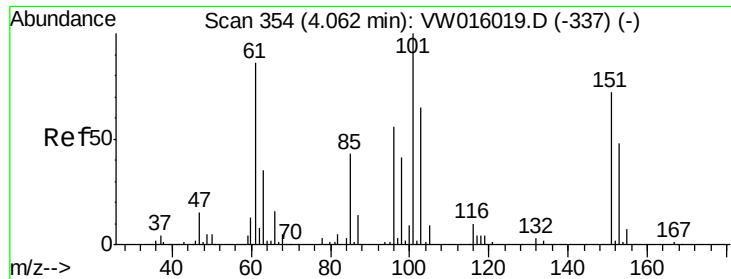
103 64.6 45.8 85.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#11

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

Concen: 27.392 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Instrument :

MSVOA_W

ClientSampled :

VSTD02522

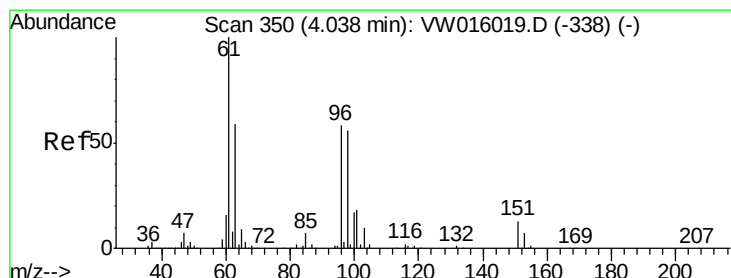
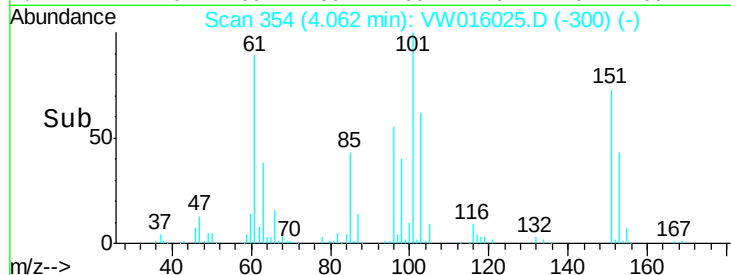
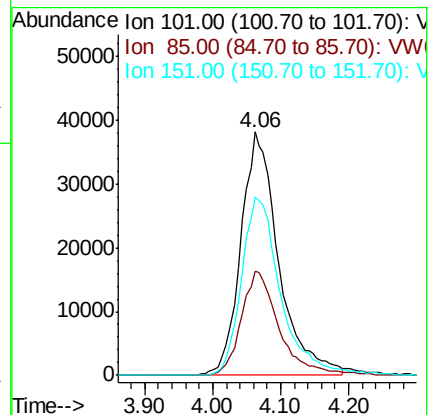
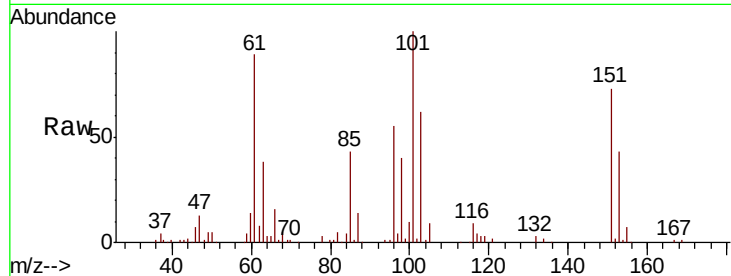
Tot Ion:101 Resp: 147674

Ion Ratio Lower Upper

101 100

85 42.4 35.5 53.3

151 75.6 58.4 87.6



#12

1,1-Dichloroethene

Concen: 27.597 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

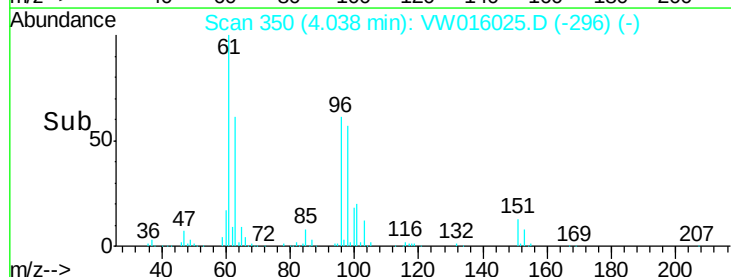
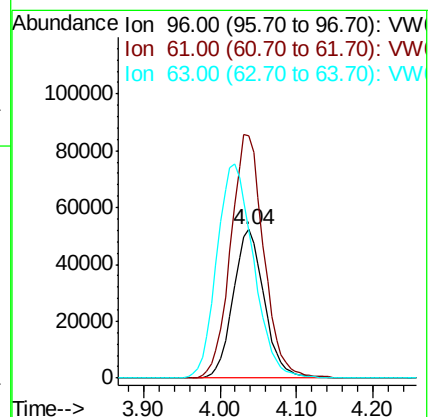
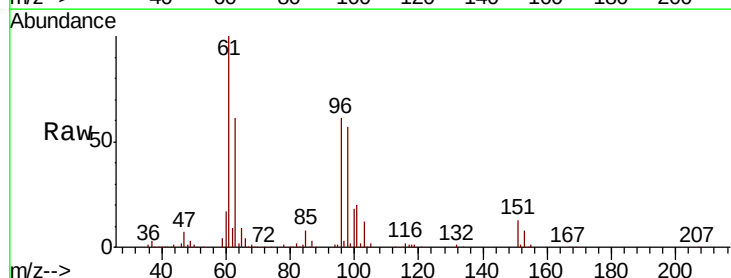
Tgt Ion: 96 Resp: 147465

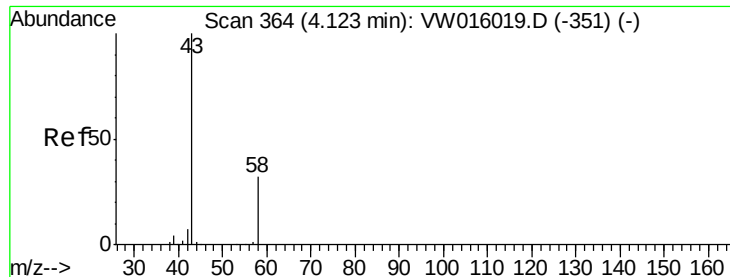
Ion Ratio Lower Upper

96 100

61 162.9 125.0 232.2

63 98.9 82.3 152.8





#13

Acetone

Concen: 65.113 ug/L

RT: 4.15 min Scan# 368

Delta R.T. 0.02 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

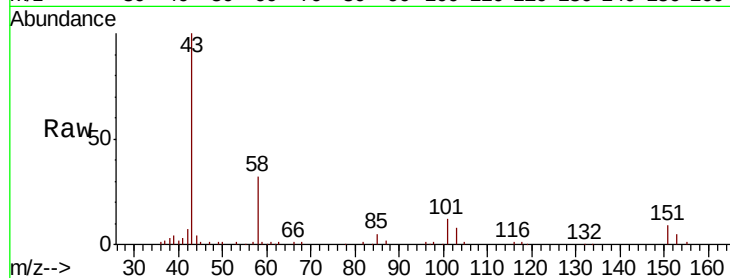
VSTD02522

Tot Ion: 43 Resp: 84250

Ion Ratio Lower Upper

43 100

58 31.4 0.0 58.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.15

30000

25000

20000

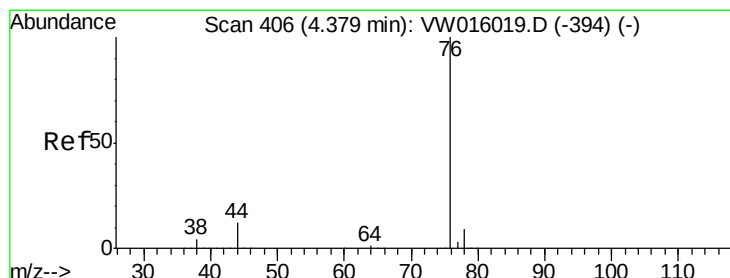
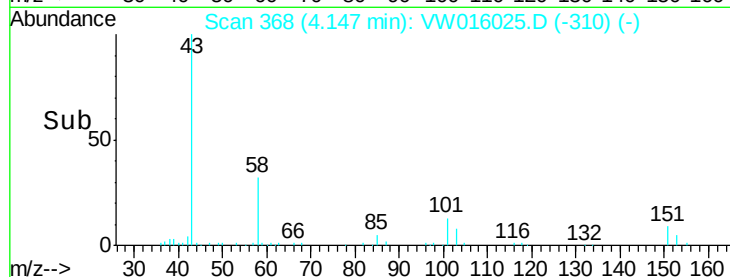
15000

10000

5000

0

Time--> 4.00 4.10 4.20 4.30



#14

Carbon disulfide

Concen: 24.713 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW016025.D

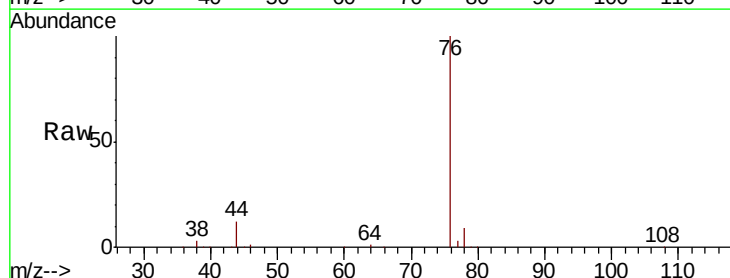
Acq: 31 Jul 2020 17:23

Tgt Ion: 76 Resp: 417045

Ion Ratio Lower Upper

76 100

78 9.0 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.38

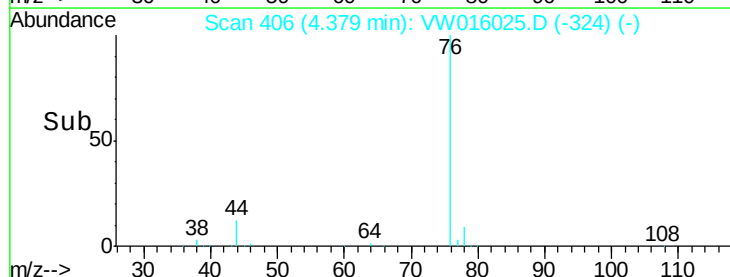
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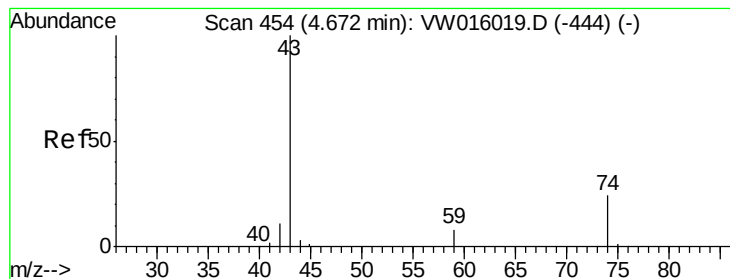
100000

50000

0

Time--> 4.20 4.30 4.40 4.50





#15

Methvl Acetate

Concen: 33.336 ug/L

RT: 4.68 min Scan# 456

Delta R.T. 0.01 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

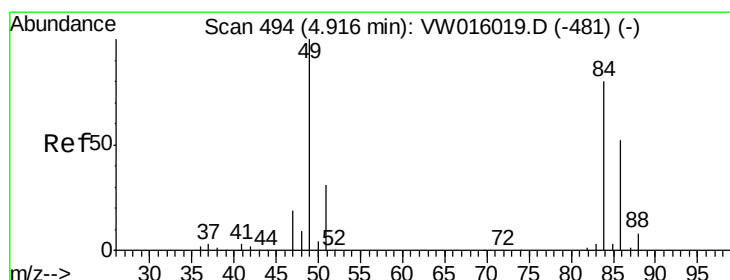
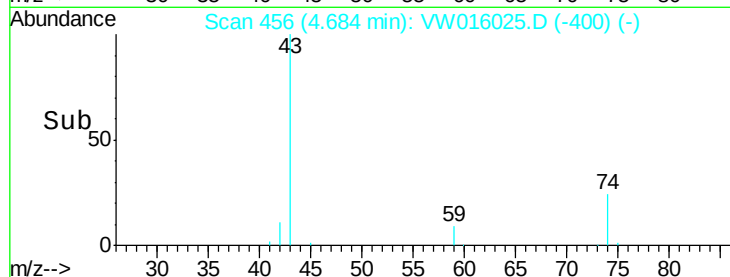
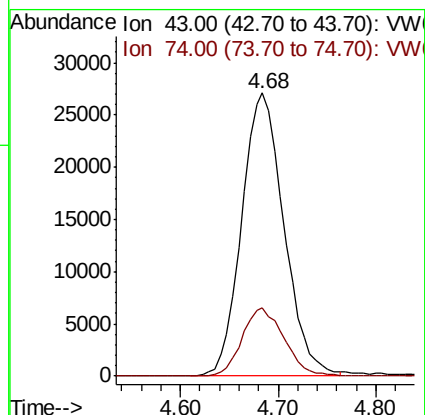
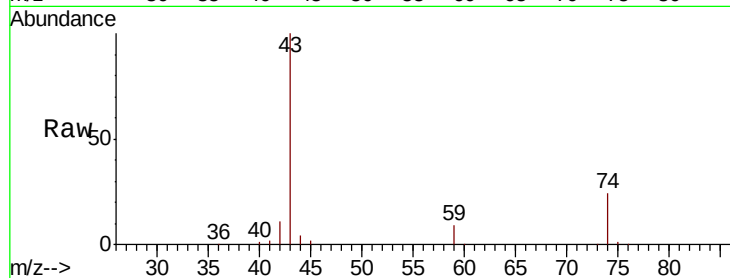
VSTD02522

Tot Ion: 43 Resp: 81329

Ion Ratio Lower Upper

43 100

74 24.0 18.2 27.2



#16

Methylene chloride

Concen: 27.052 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

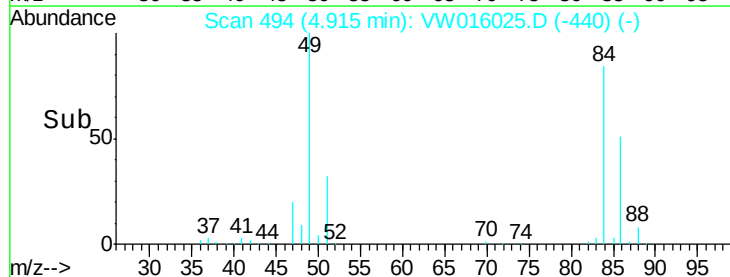
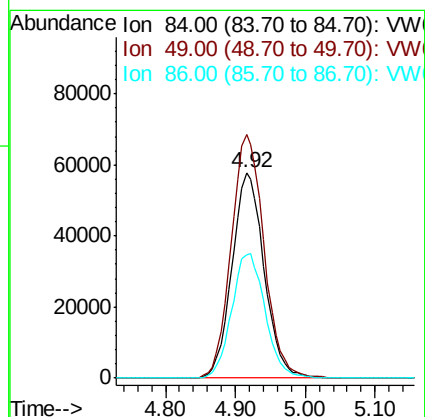
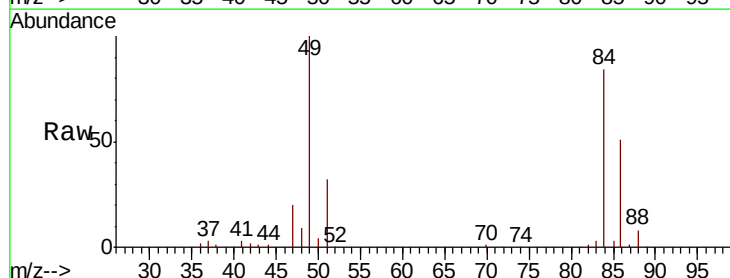
Tgt Ion: 84 Resp: 184260

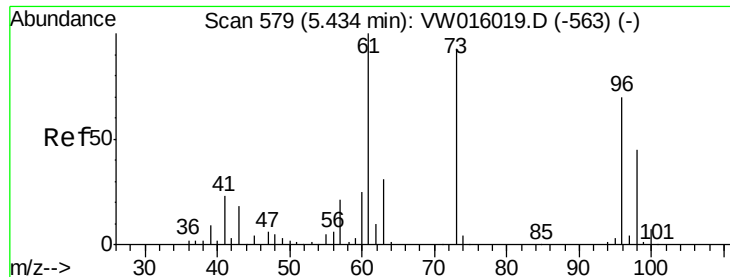
Ion Ratio Lower Upper

84 100

49 118.5 91.1 169.1

86 60.3 46.0 85.4

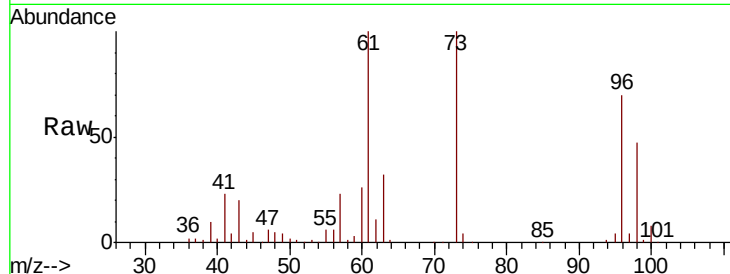




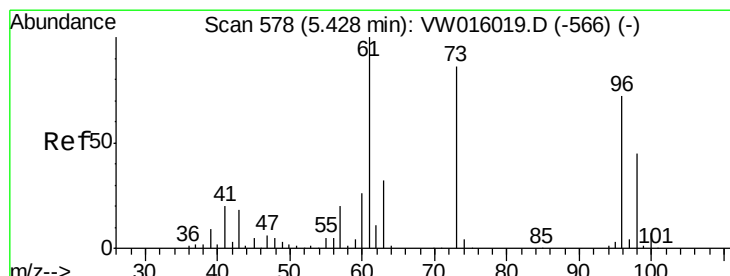
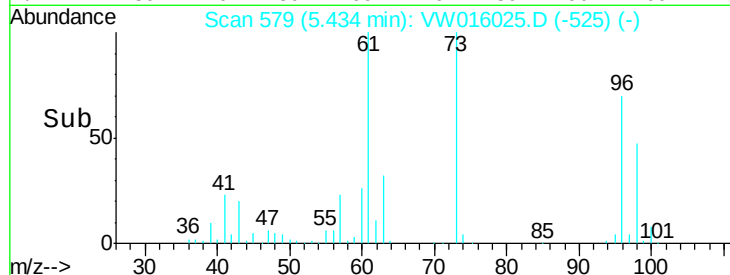
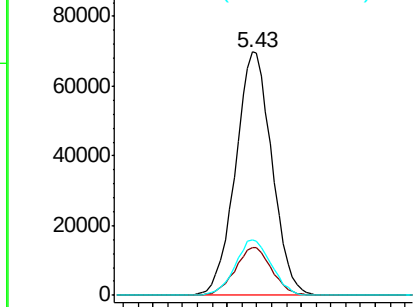
#17
Methyl tert-butyl Ether
Concen: 31.604 ug/L
RT: 5.43 min Scan# 579
Delta R.T. -0.00 min
Lab File: VW016025.D
Acq: 31 Jul 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
VSTD02522

Tot Ion:	73	Resp:	238806
Ion	Ratio	Lower	Upper
73	100		
43	19.9	18.4	27.6
57	22.7	17.8	26.8

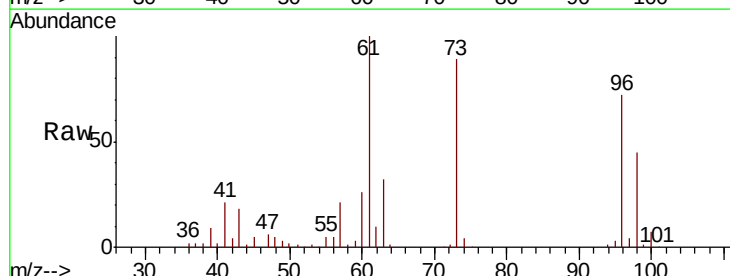


Abundance Ion 73.00 (72.70 to 73.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 57.00 (56.70 to 57.70): VW

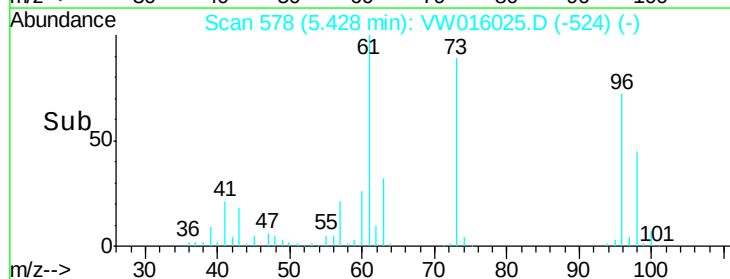
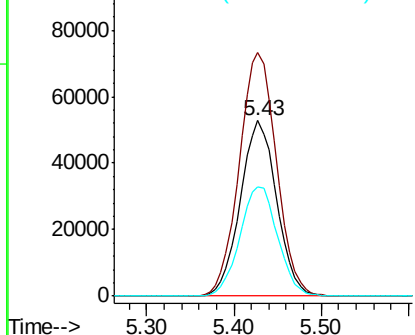


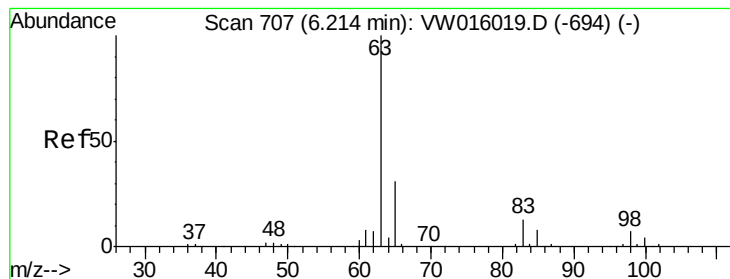
#18
trans-1,2-Dichloroethene
Concen: 27.169 ug/L
RT: 5.43 min Scan# 578
Delta R.T. -0.00 min
Lab File: VW016025.D
Acq: 31 Jul 2020 17:23

Tgt Ion:	96	Resp:	153306
Ion	Ratio	Lower	Upper
96	100		
61	138.8	99.3	184.5
98	62.4	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





#19

1,1-Dichloroethane

Concen: 27.593 ug/L

RT: 6.22 min Scan# 708

Delta R.T. 0.01 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

VSTD02522

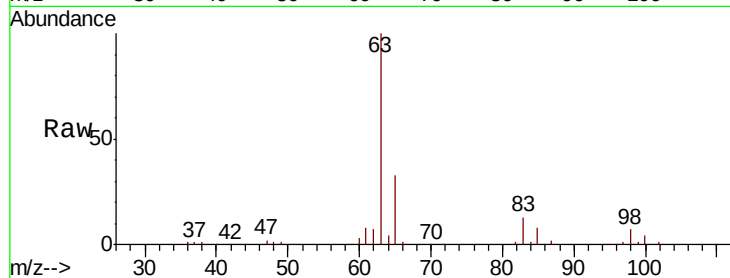
Tot Ion: 63 Resp: 286916

Ion Ratio Lower Upper

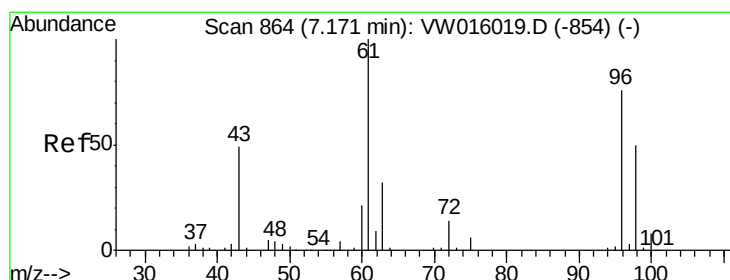
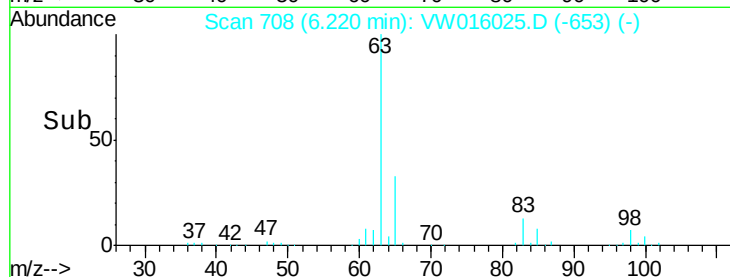
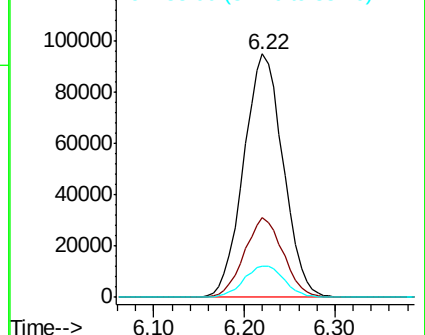
63 100

65 32.8 22.2 41.2

83 12.8 9.8 18.2



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: 70.115 ug/L

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW016025.D

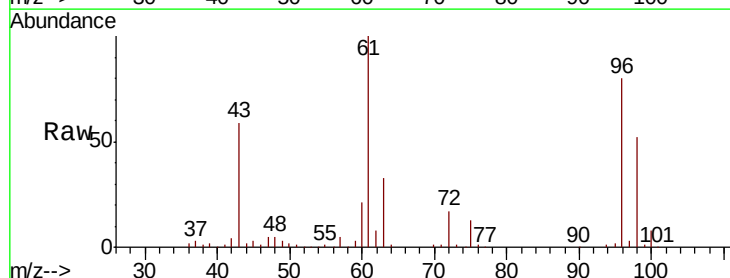
Acq: 31 Jul 2020 17:23

Tgt Ion: 43 Resp: 112186

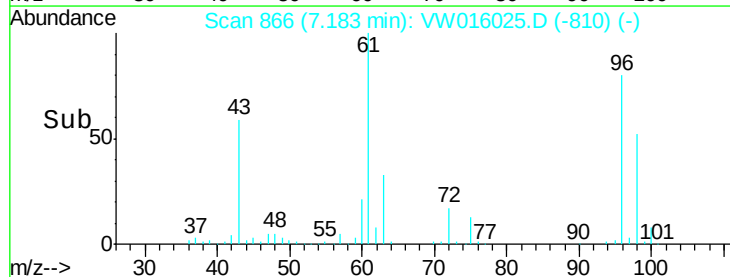
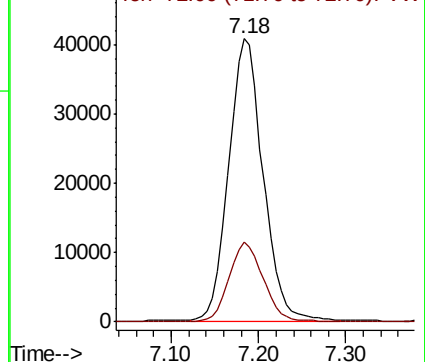
Ion Ratio Lower Upper

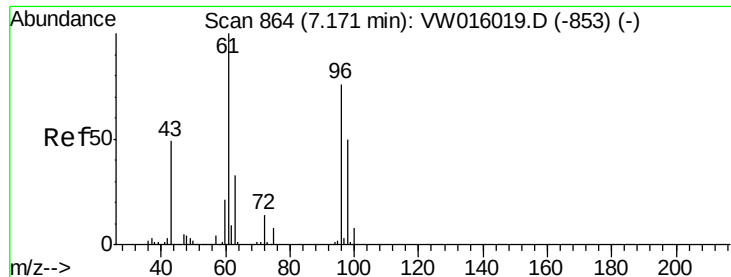
43 100

72 27.9 13.9 41.7



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: 28.280 ug/L

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

VSTD02522

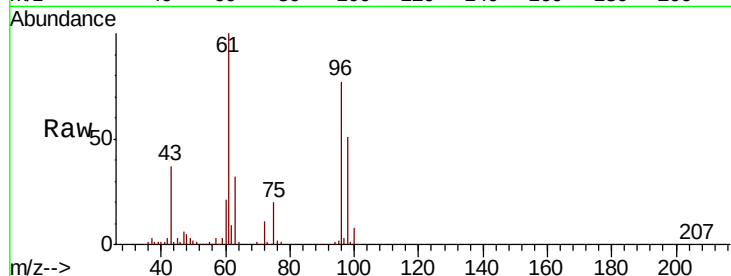
Tot Ion: 96 Resp: 166951

Ion Ratio Lower Upper

96 100

61 129.7 94.6 175.8

98 65.7 44.3 82.3

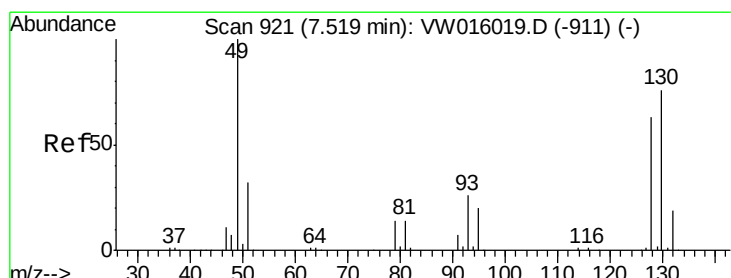
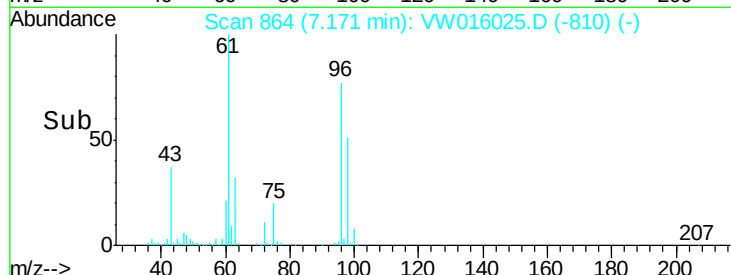
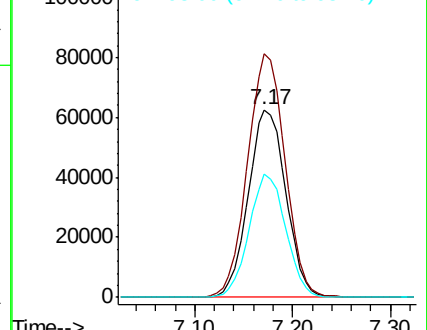


Abundance

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



#23

Bromochloromethane

Concen: 29.511 ug/L

RT: 7.52 min Scan# 921

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Tgt Ion: 128 Resp: 76396

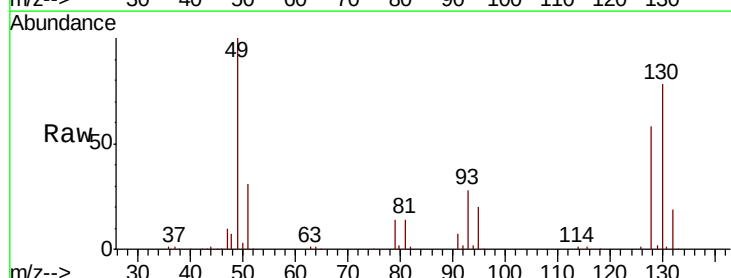
Ion Ratio Lower Upper

128 100

49 173.3 122.4 227.2

130 134.8 93.9 174.5

51 54.0 43.2 64.8



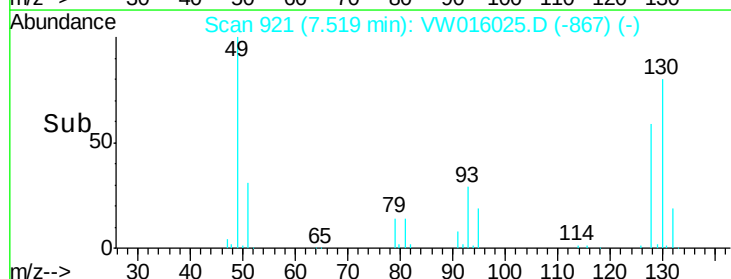
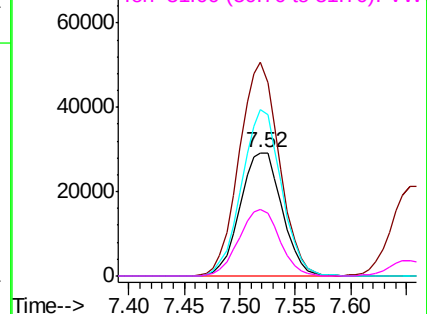
Abundance

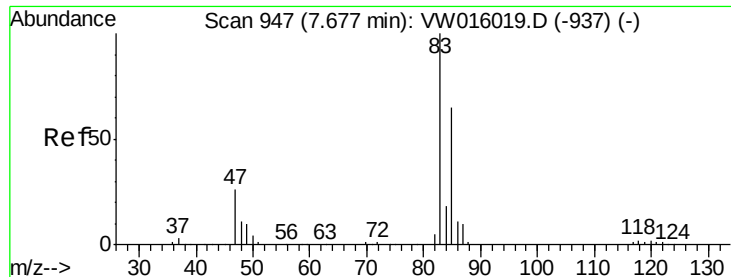
Ion 128.00 (127.70 to 128.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): VW

Ion 51.00 (50.70 to 51.70): VW

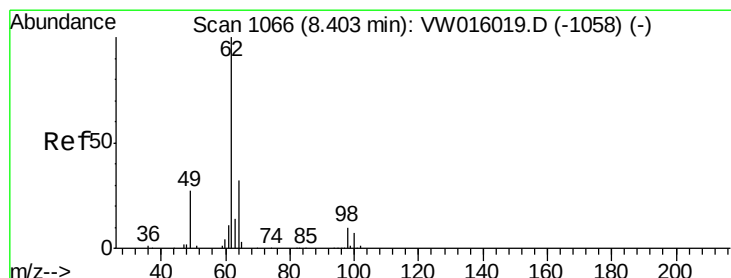
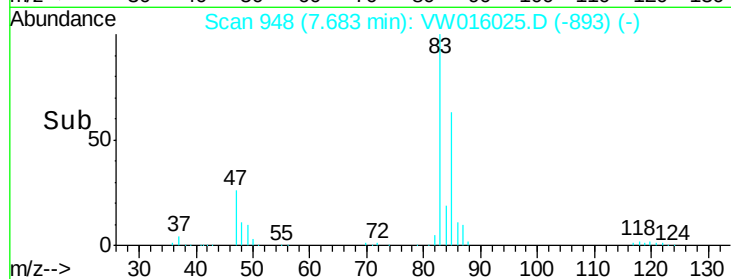
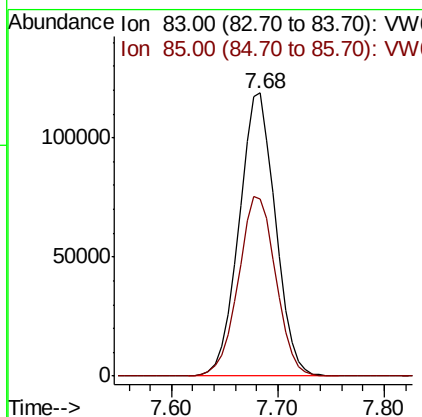
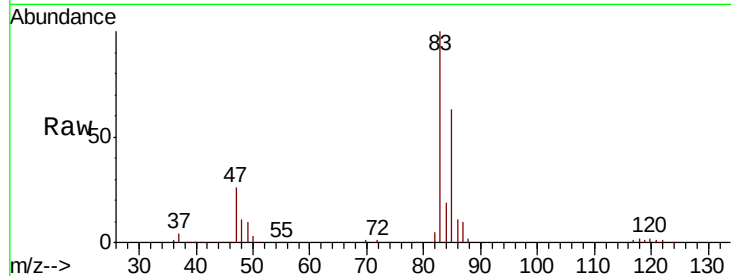




#25
Chloroform
Concen: 27.658 ug/L
RT: 7.68 min Scan# 948
Delta R.T. 0.01 min
Lab File: VW016025.D
Acq: 31 Jul 2020 17:23

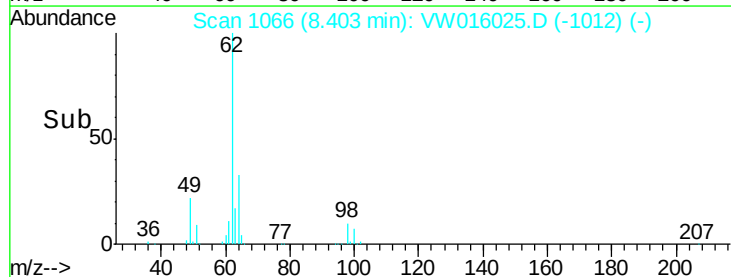
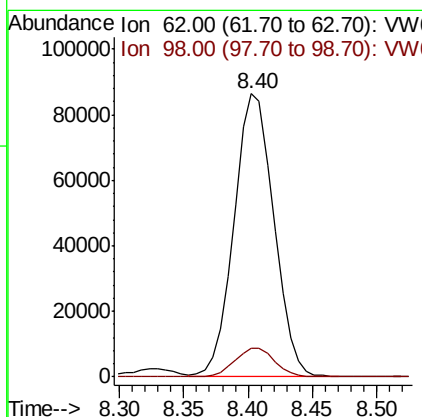
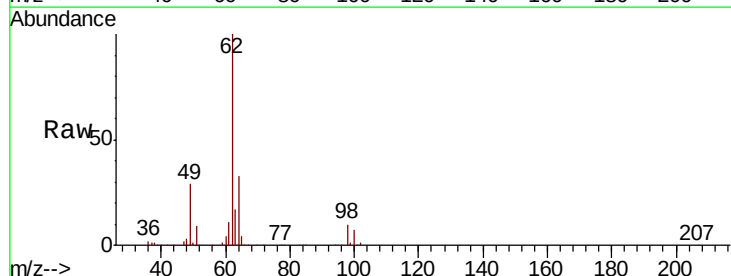
Instrument :
MSVOA_W
ClientSampleId :
VSTD02522

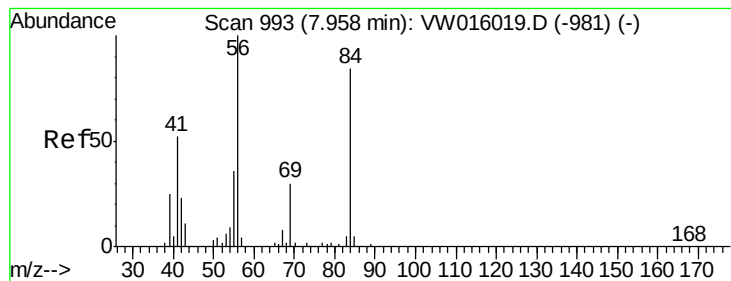
Tot Ion: 83 Resp: 285032
Ion Ratio Lower Upper
83 100
85 65.7 46.5 86.5



#27
1,2-Dichloroethane
Concen: 26.399 ug/L
RT: 8.40 min Scan# 1066
Delta R.T. -0.00 min
Lab File: VW016025.D
Acq: 31 Jul 2020 17:23

Tgt Ion: 62 Resp: 185120
Ion Ratio Lower Upper
62 100
98 10.2 7.0 10.6





#30

Cyclohexane

Concen: 26.770 ug/L

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

VSTD02522

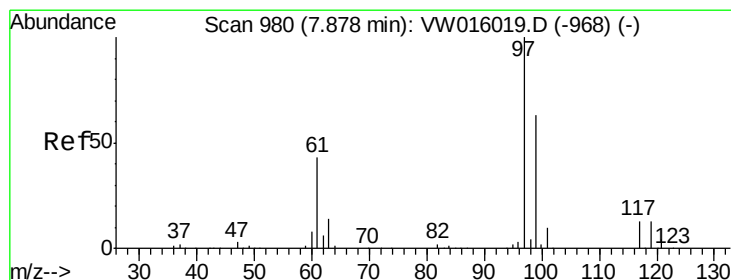
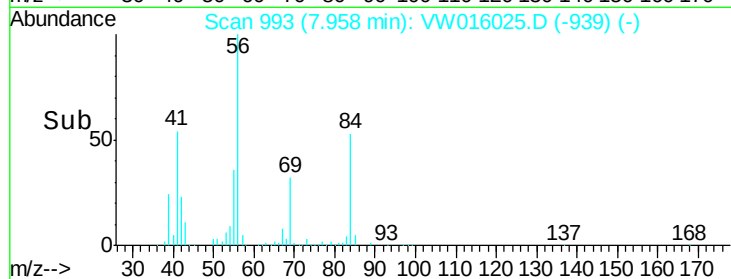
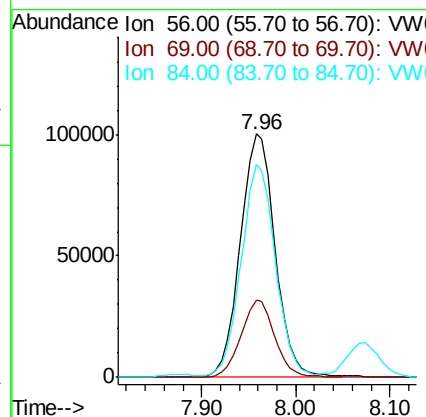
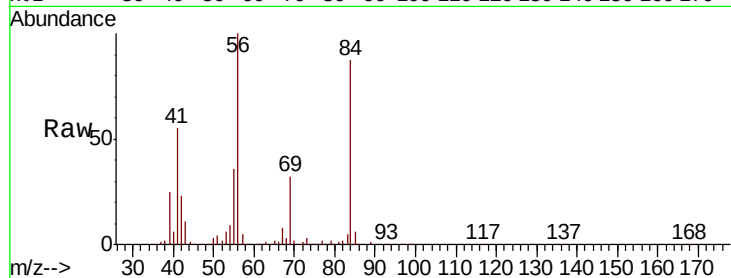
Tot Ion: 56 Resp: 258941

Ion Ratio Lower Upper

56 100

69 30.9 24.4 36.6

84 86.5 69.3 103.9



#31

1,1,1-Trichloroethane

Concen: 26.615 ug/L

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

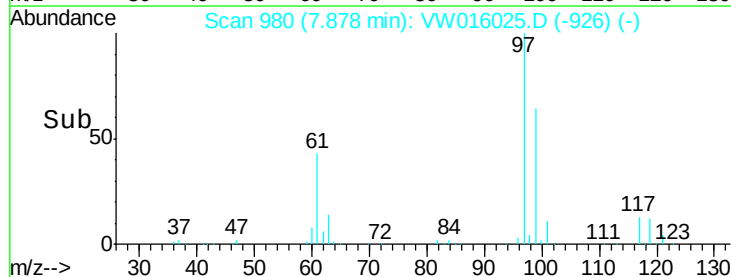
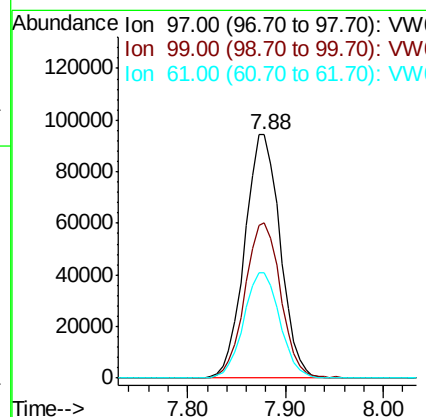
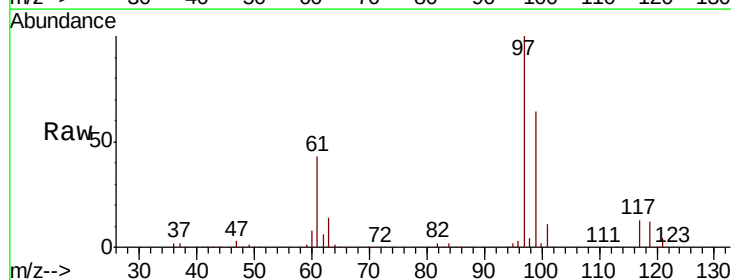
Tgt Ion: 97 Resp: 238397

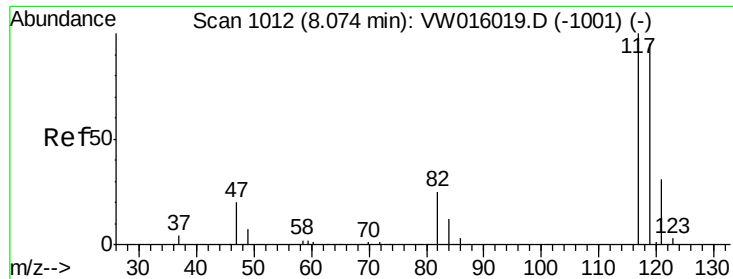
Ion Ratio Lower Upper

97 100

99 64.3 51.9 77.9

61 44.1 37.6 56.4





#32

Carbon tetrachloride

Concen: 25.895 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

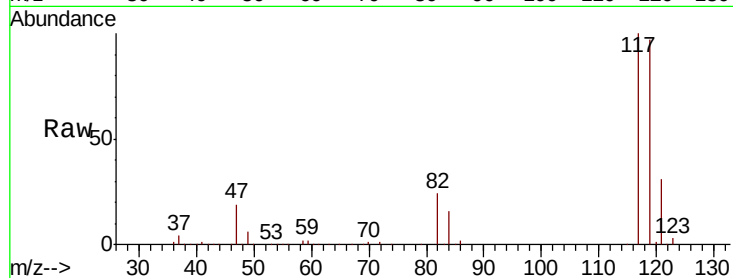
VSTD02522

Tot Ion:117 Resp: 210333

Ion Ratio Lower Upper

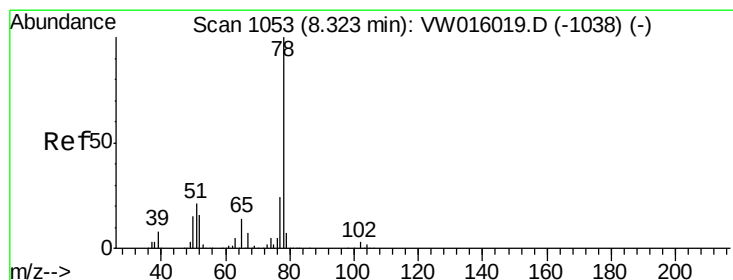
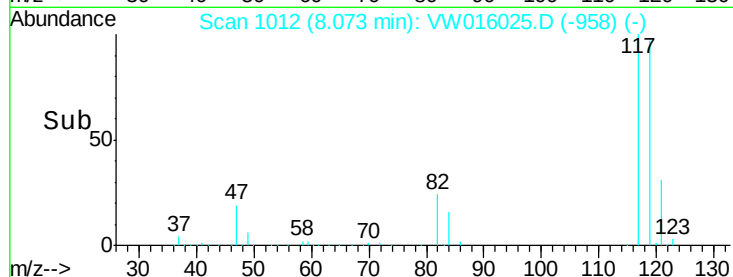
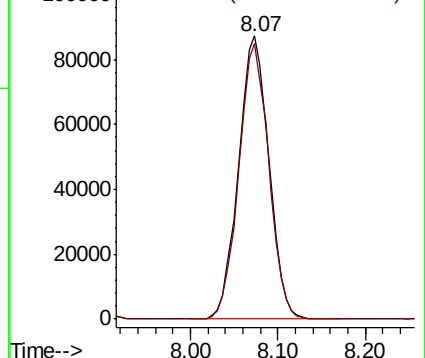
117 100

119 96.3 76.4 114.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 27.567 ug/L

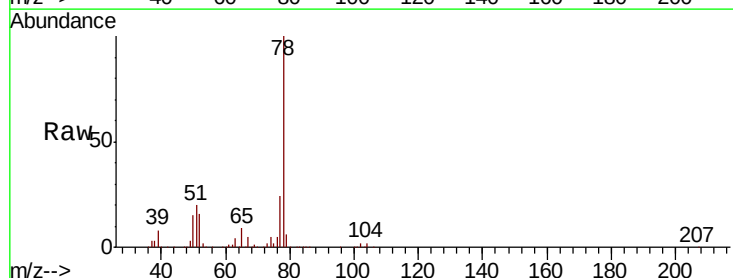
RT: 8.33 min Scan# 1054

Delta R.T. 0.01 min

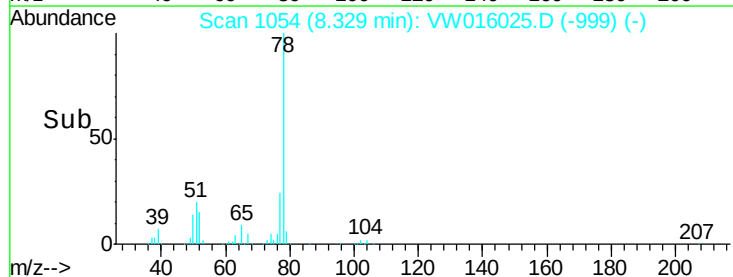
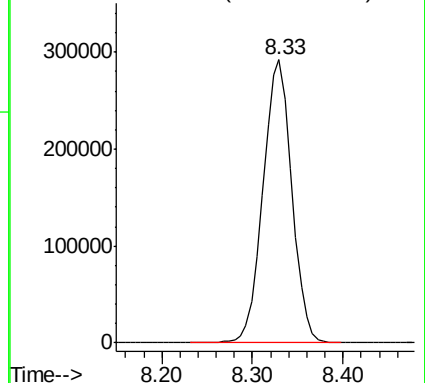
Lab File: VW016025.D

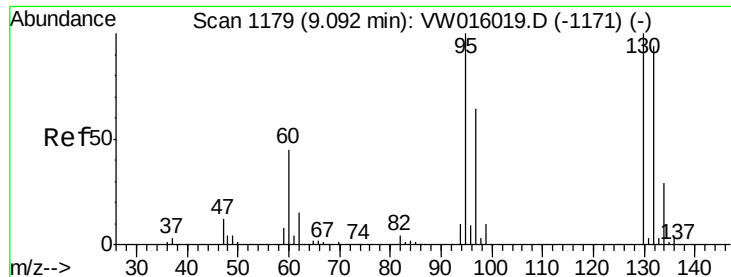
Acq: 31 Jul 2020 17:23

Tgt Ion: 78 Resp: 642285



Abundance Ion 78.00 (77.70 to 78.70): VW

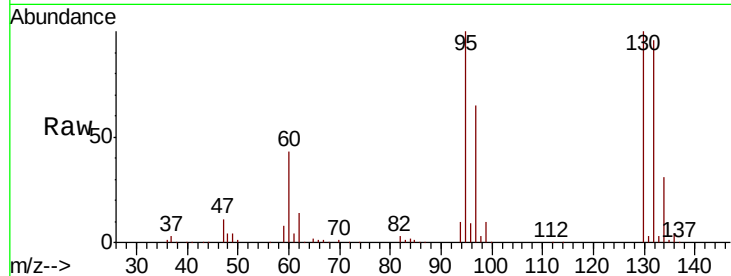




#35
 Trichloroethene
 Concen: 26.333 ug/L
 RT: 9.10 min Scan# 1180
 Delta R.T. 0.01 min
 Lab File: VW016025.D
 Acq: 31 Jul 2020 17:23

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02522

Tot Ion:	95	Resp:	162303
Ion	Ratio	Lower	Upper
95	100		
97	64.6	44.4	82.4
132	97.7	65.1	120.9
130	100.4	68.6	127.4



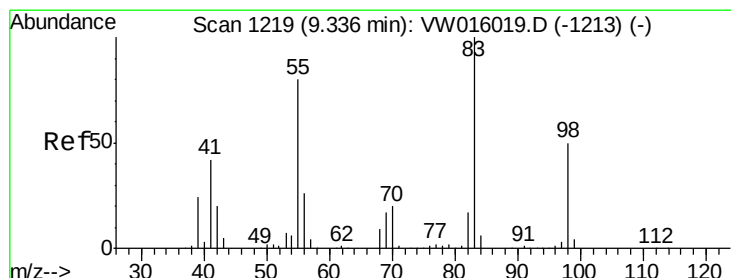
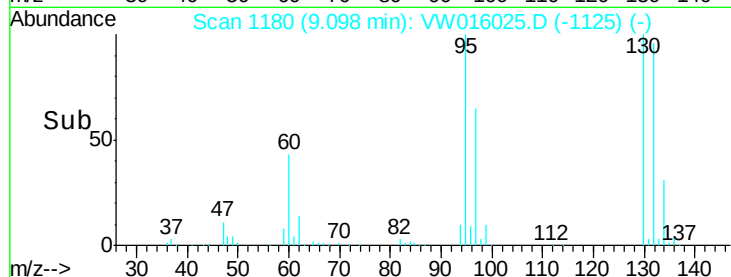
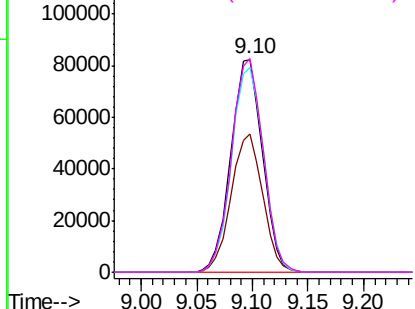
Abundance

Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

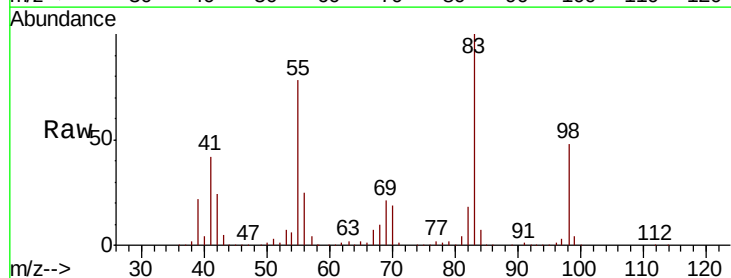
Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW



#36
 Methylcyclohexane
 Concen: 26.979 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: VW016025.D
 Acq: 31 Jul 2020 17:23

Tgt Ion:	83	Resp:	285317
Ion	Ratio	Lower	Upper
83	100		
55	77.0	63.5	95.3
98	48.3	39.0	58.4

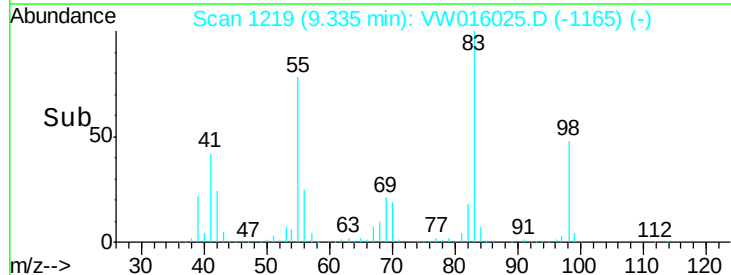
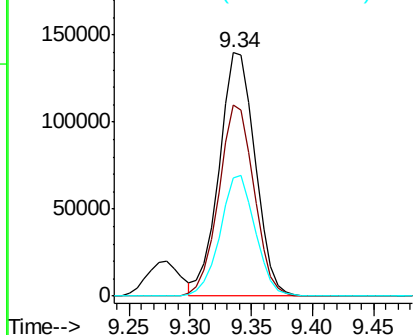


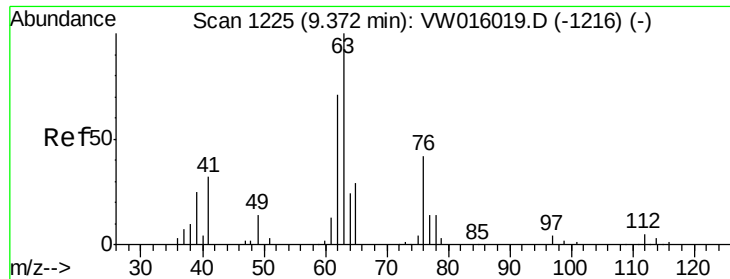
Abundance

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: 28.262 ug/L

RT: 9.37 min Scan# 1225

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

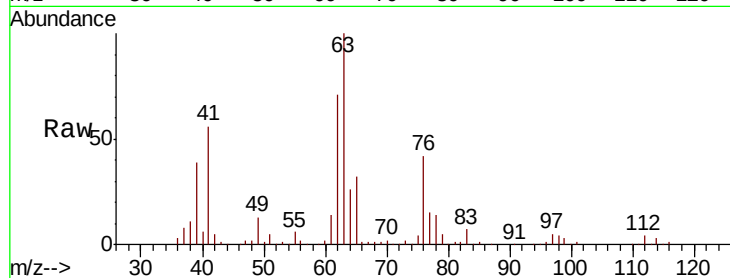
VSTD02522

Tot Ion: 63 Resp: 163127

Ion Ratio Lower Upper

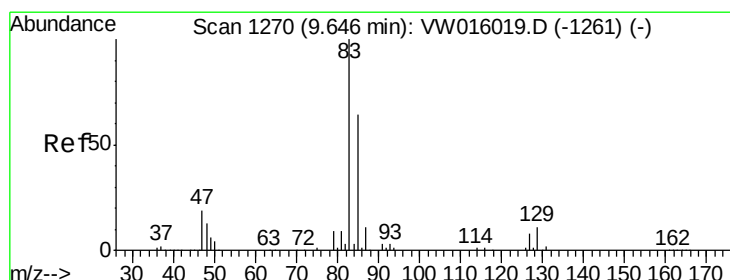
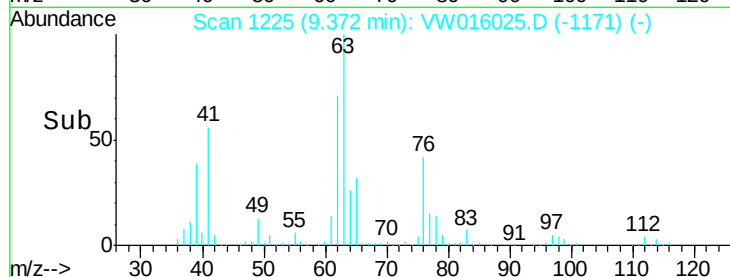
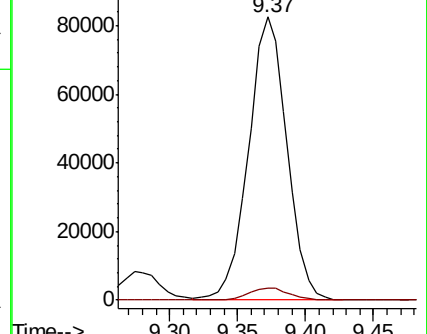
63 100

112 4.6 3.7 5.5



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 27.221 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

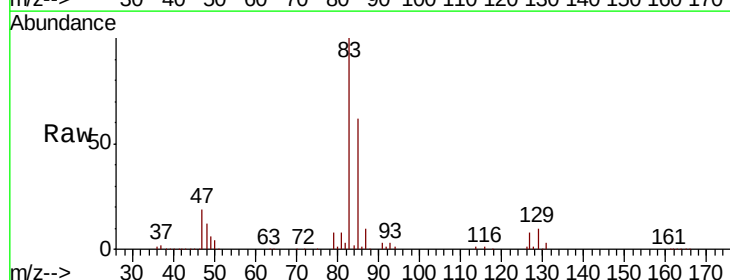
Tgt Ion: 83 Resp: 202906

Ion Ratio Lower Upper

83 100

85 62.2 43.7 81.1

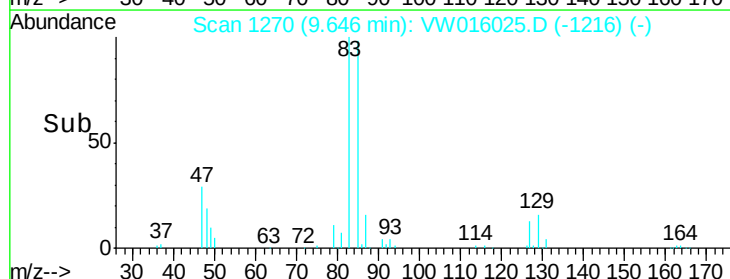
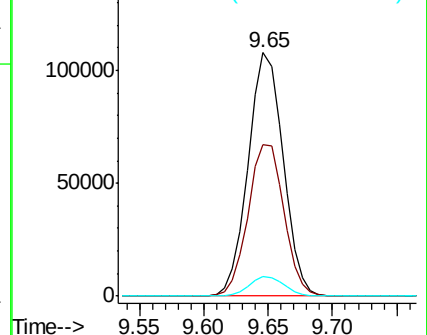
127 8.0 6.5 9.7

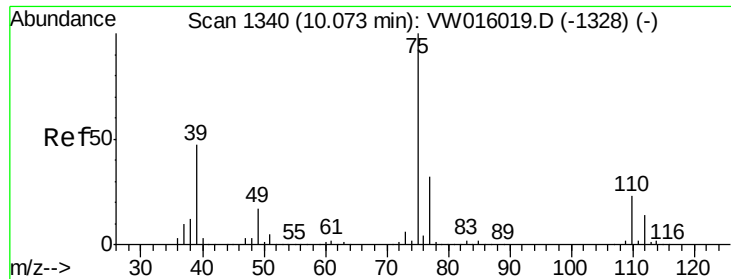


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 28.555 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Instrument :

MSVOA_W

ClientSampled :

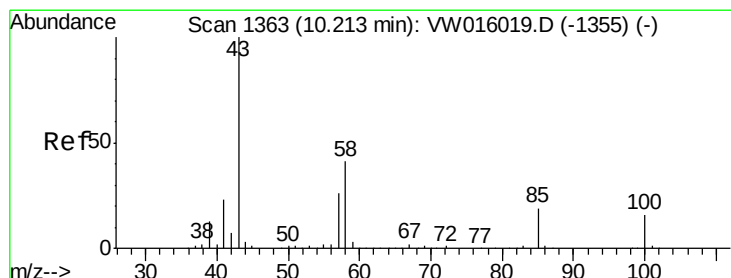
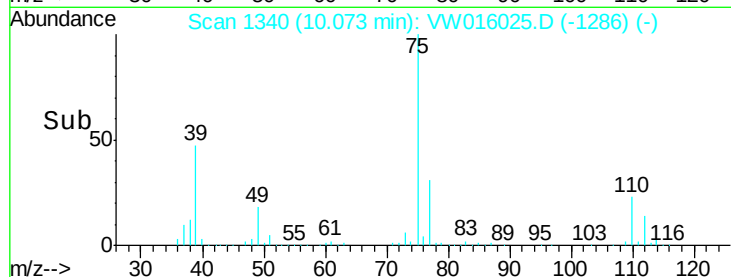
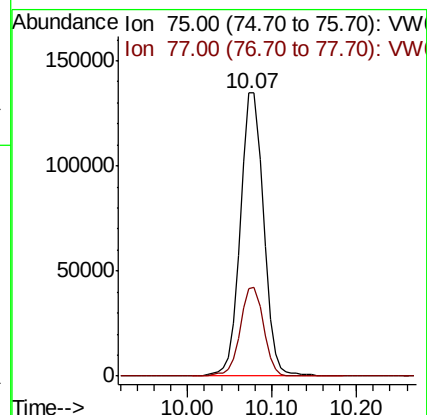
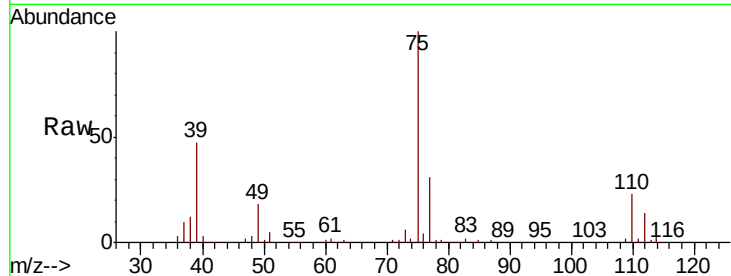
VSTD02522

Tot Ion: 75 Resp: 251021

Ion Ratio Lower Upper

75 100

77 30.7 22.2 41.2



#43

4-Methyl-2-pentanone

Concen: 66.848 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

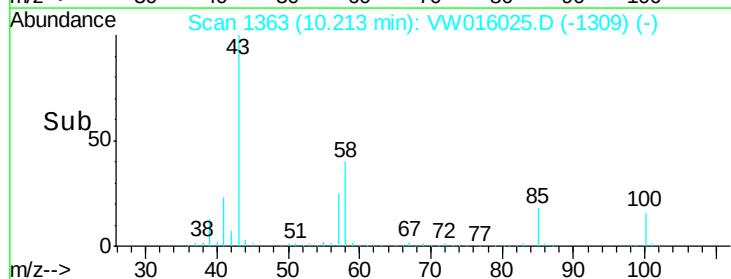
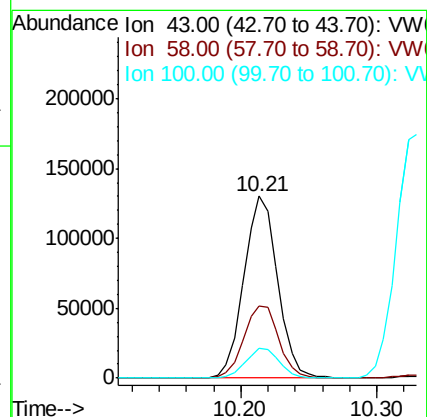
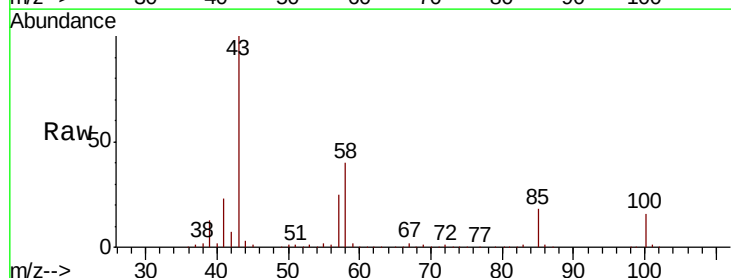
Tgt Ion: 43 Resp: 225212

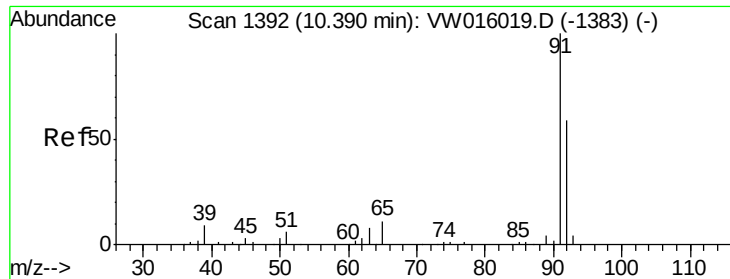
Ion Ratio Lower Upper

43 100

58 41.3 31.0 46.4

100 16.5 12.6 19.0





#44

Toluene

Concen: 27.822 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

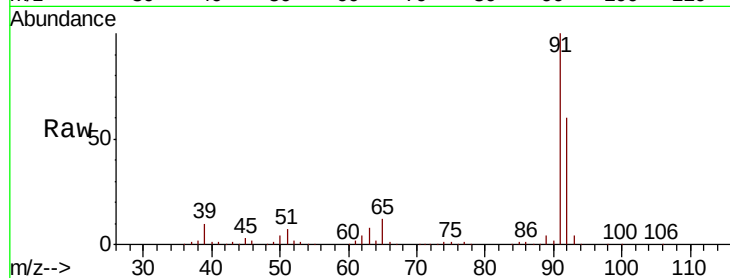
VSTD02522

Tot Ion: 91 Resp: 679889

Ion Ratio Lower Upper

91 100

92 60.4 41.2 76.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

10.39

400000

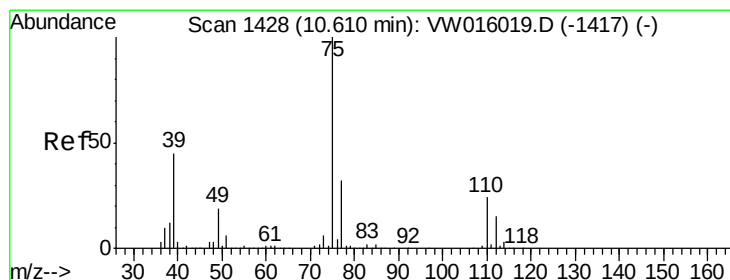
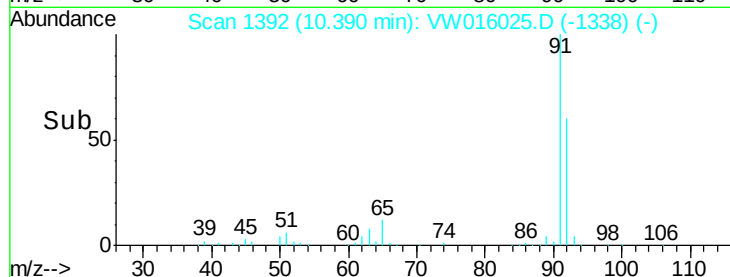
300000

200000

100000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 29.122 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. -0.00 min

Lab File: VW016025.D

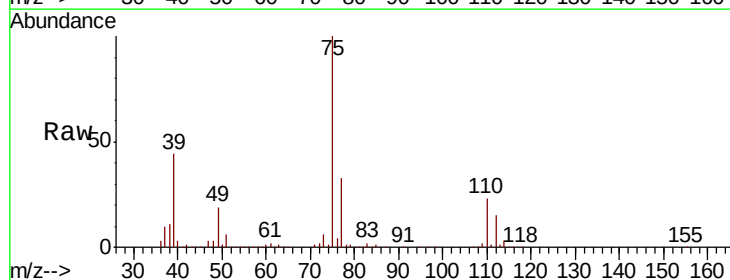
Acq: 31 Jul 2020 17:23

Tgt Ion: 75 Resp: 221903

Ion Ratio Lower Upper

75 100

77 32.6 22.5 41.9



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

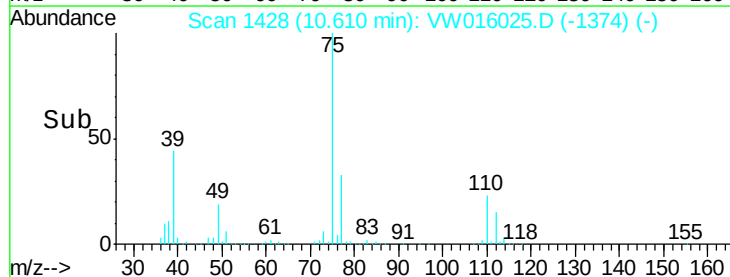
150000

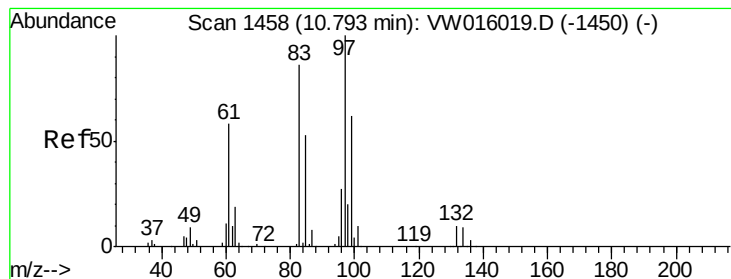
100000

50000

0

Time-->





#46

1,1,2-Trichloroethane

Concen: 30.372 ug/L

RT: 10.79 min Scan# 1458

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

VSTD02522

Tot Ion: 97 Resp: 126061

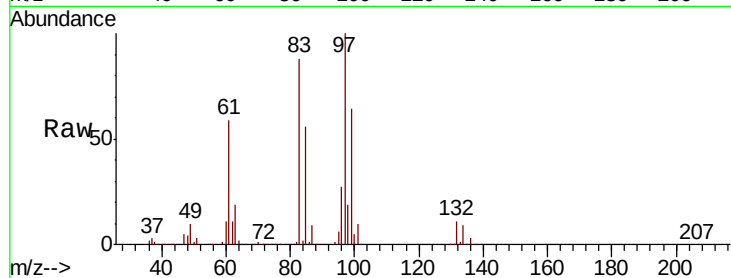
Ion Ratio Lower Upper

97 100

83 87.7 60.6 112.6

85 55.6 38.9 72.2

99 64.1 43.1 80.1

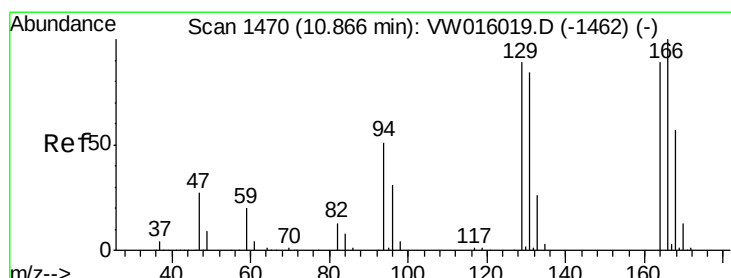
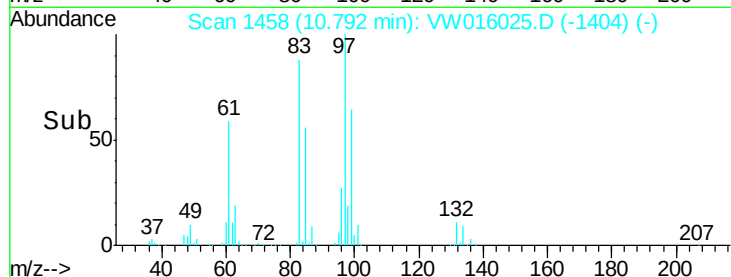
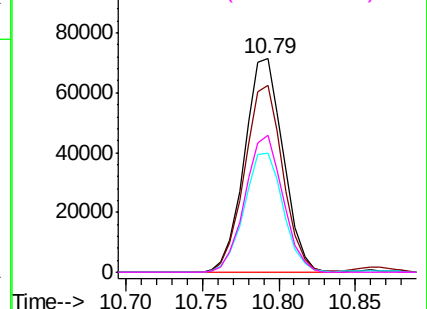


Abundance Ion 97.00 (96.70 to 97.70): VW

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: 26.954 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Tgt Ion: 164 Resp: 128948

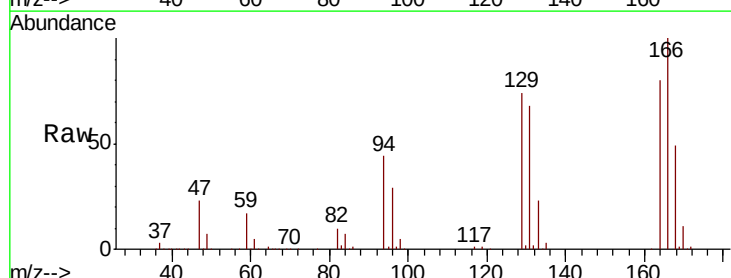
Ion Ratio Lower Upper

164 100

129 93.0 70.0 130.0

131 85.8 67.3 124.9

166 125.6 88.5 164.3

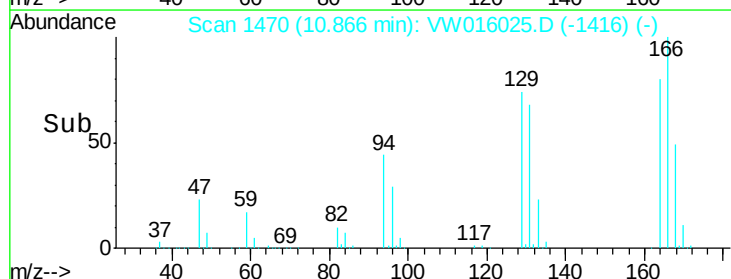
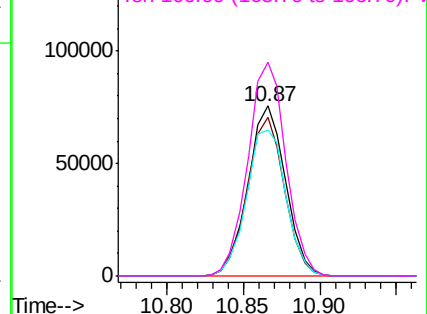


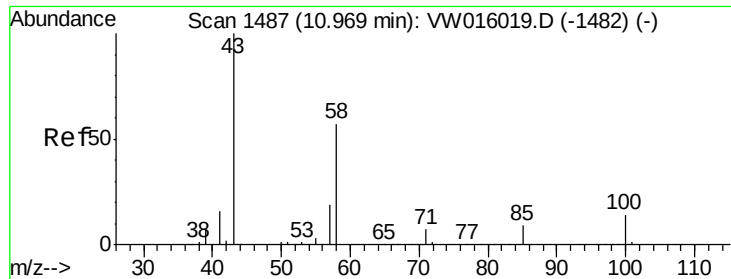
Abundance Ion 164.00 (163.70 to 164.70): V

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: 68.686 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

VSTD02522

Tot Ion: 43 Resp: 164213

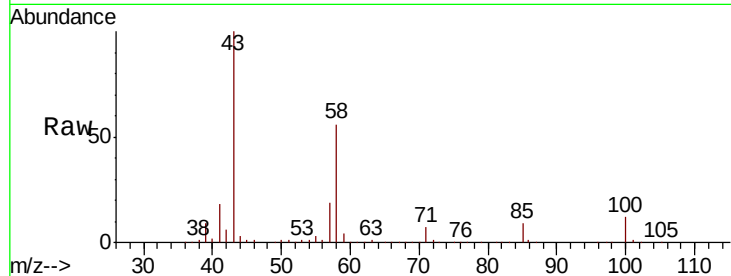
Ion Ratio Lower Upper

43 100

58 56.5 42.4 63.6

57 19.8 15.6 23.4

100 13.0 9.8 14.6

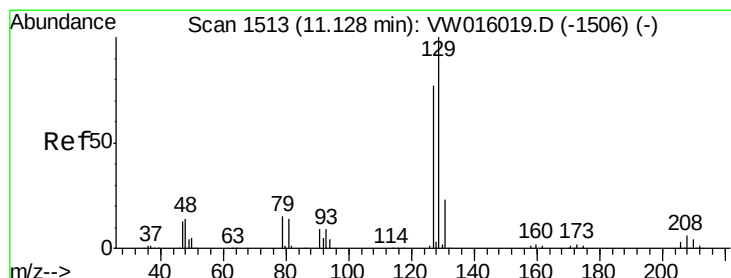
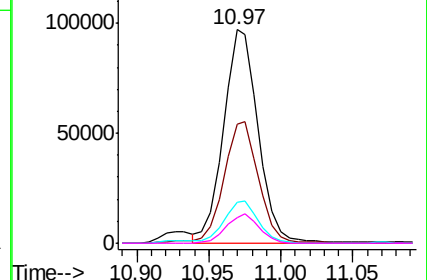
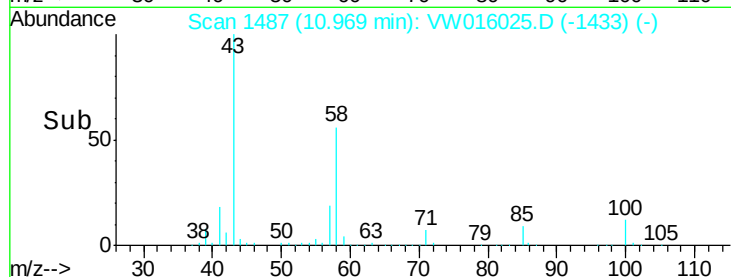


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 29.379 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW016025.D

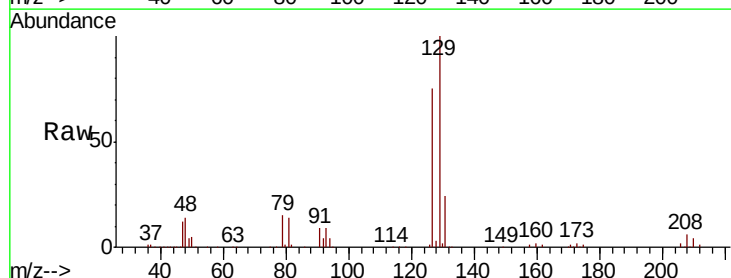
Acq: 31 Jul 2020 17:23

Tgt Ion: 129 Resp: 141176

Ion Ratio Lower Upper

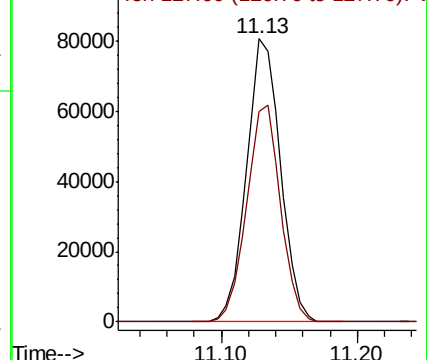
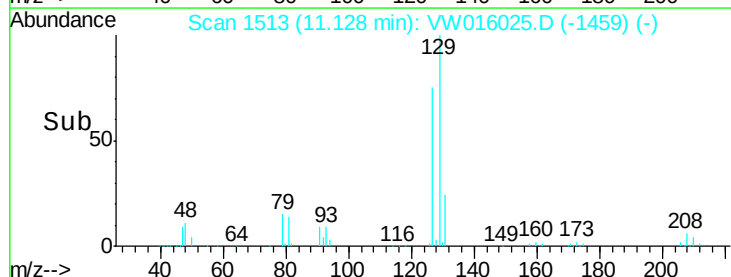
129 100

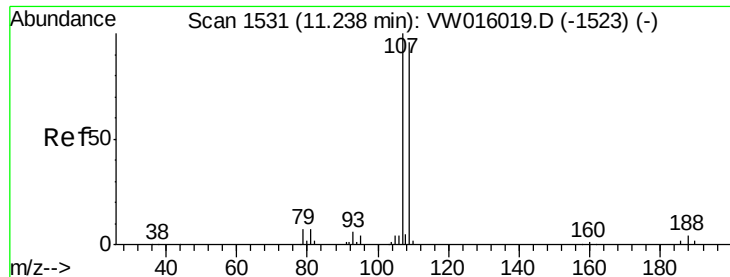
127 74.6 53.8 100.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

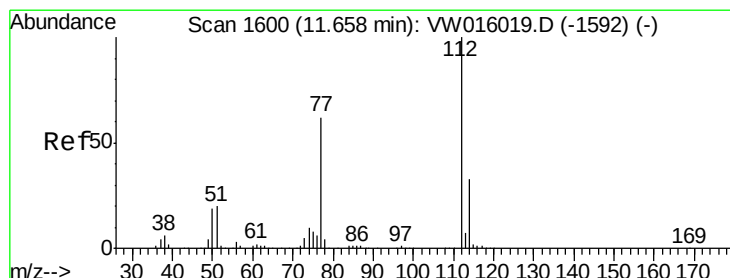
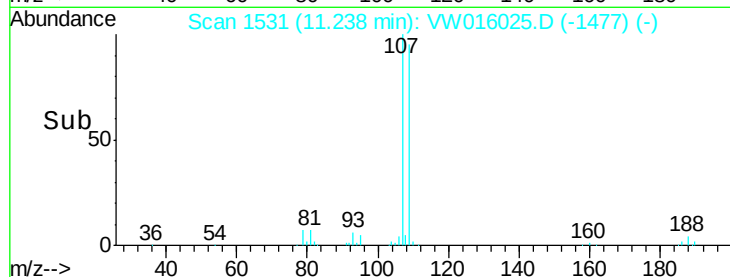
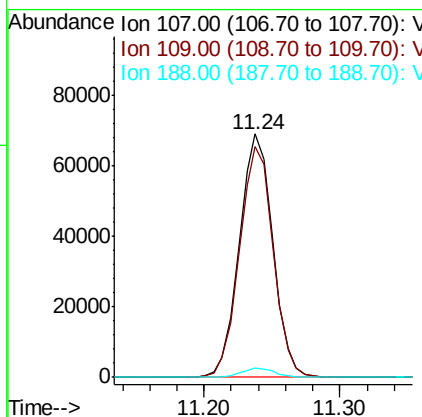
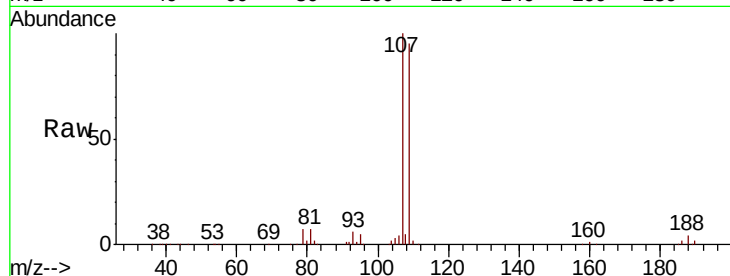




#51
 1,2-Dibromoethane
 Concen: 29.892 ug/L
 RT: 11.24 min Scan# 1531
 Delta R.T. -0.00 min
 Lab File: VW016025.D
 Acq: 31 Jul 2020 17:23

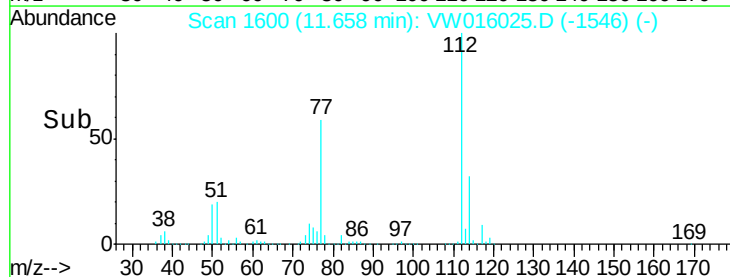
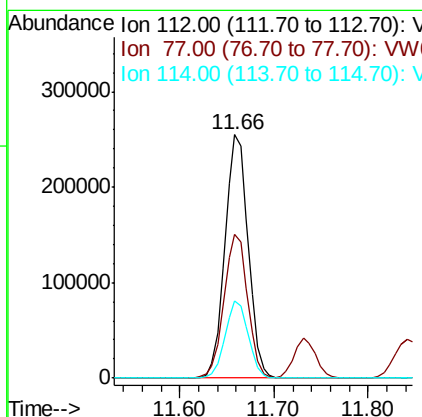
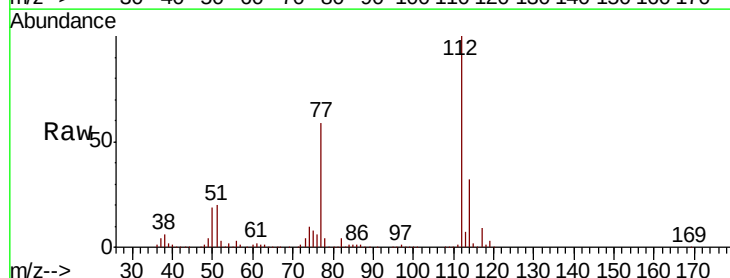
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02522

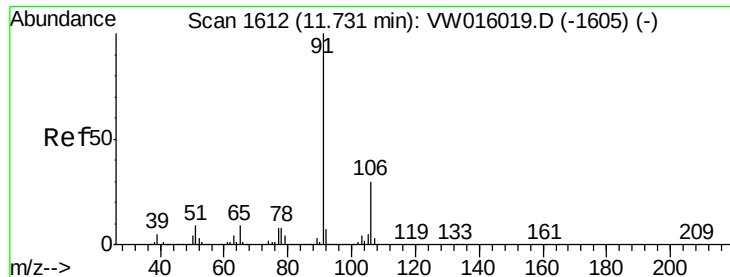
Tot Ion	Ratio	Lower	Upper
107	100		
109	94.6	66.9	124.3
188	4.1	3.2	4.8



#52
 Chlorobenzene
 Concen: 27.675 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. -0.00 min
 Lab File: VW016025.D
 Acq: 31 Jul 2020 17:23

Tgt Ion	Ratio	Lower	Upper
112	100		
77	59.0	47.8	71.6
114	31.6	22.1	41.1





#53

Ethylbenzene

Concen: 28.155 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

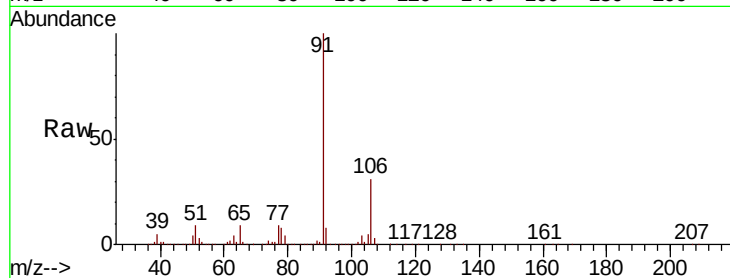
VSTD02522

Tot Ion: 91 Resp: 773657

Ion Ratio Lower Upper

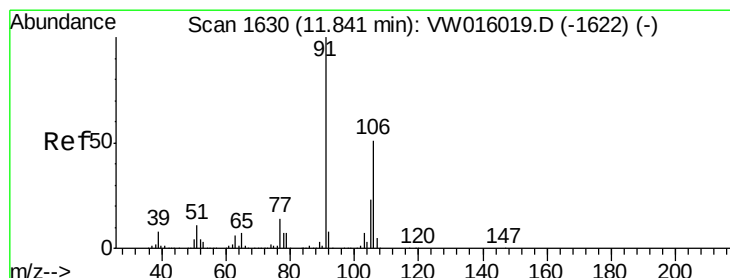
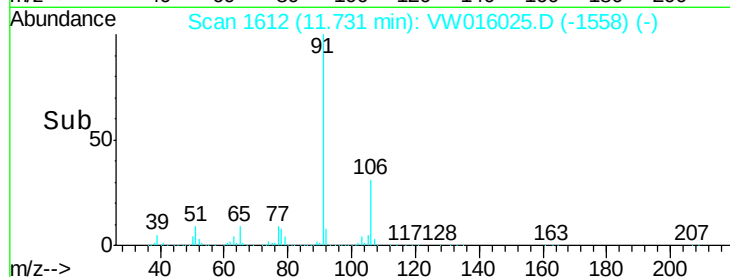
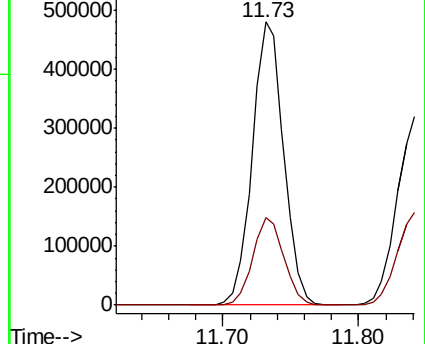
91 100

106 31.1 22.4 41.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 28.233 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW016025.D

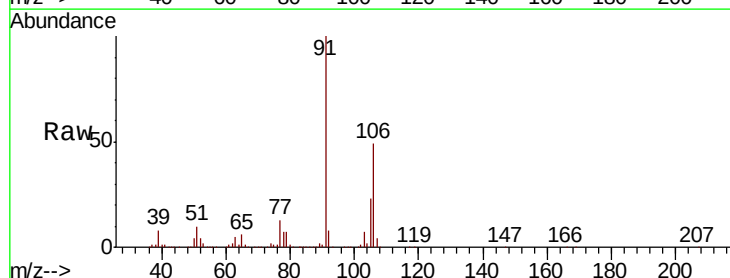
Acq: 31 Jul 2020 17:23

Tgt Ion: 106 Resp: 290256

Ion Ratio Lower Upper

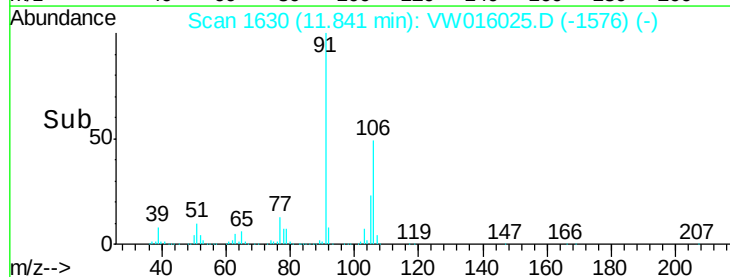
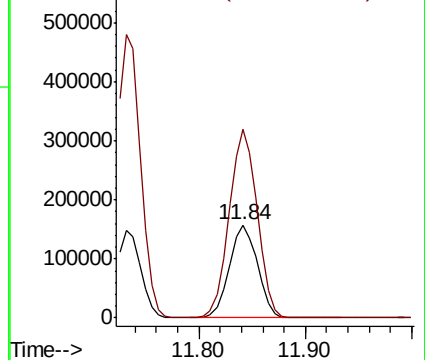
106 100

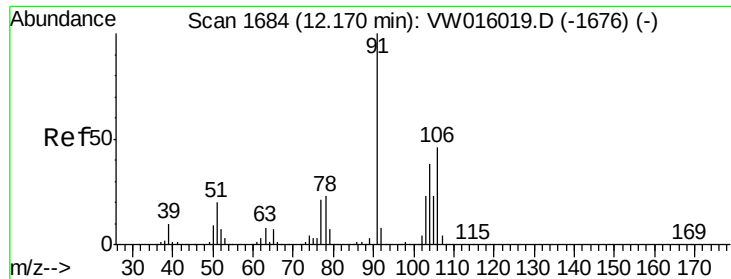
91 202.6 144.1 267.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#55

o-xylene

Concen: 28.797 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Instrument :

MSVOA_W

ClientSampled :

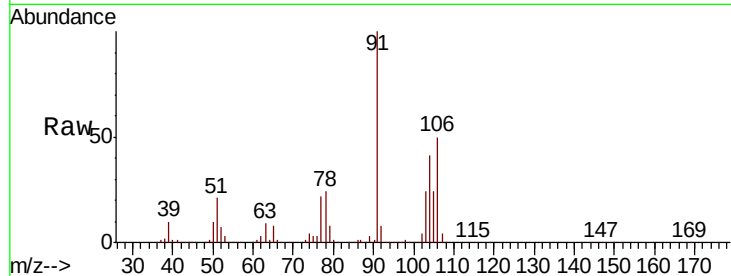
VSTD02522

Tot Ion:106 Resp: 278770

Ion Ratio Lower Upper

106 100

91 199.5 146.8 272.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

400000

300000

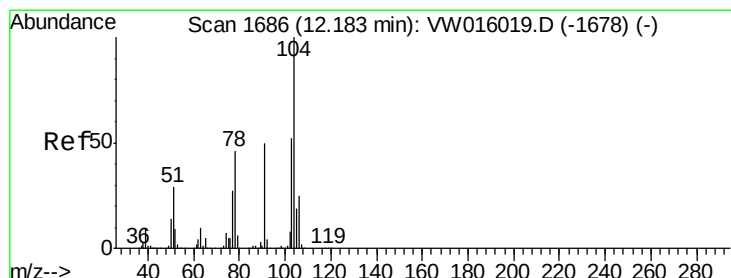
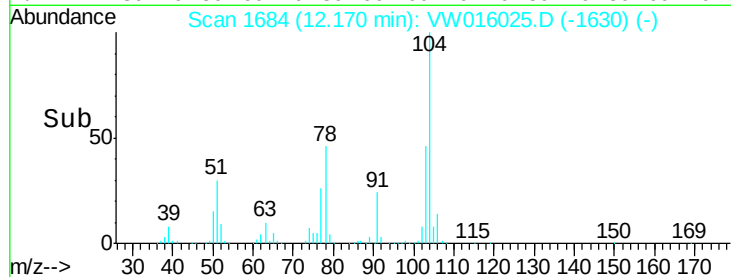
200000

100000

0

12.10 12.20

Time-->



#56

Styrene

Concen: 29.320 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW016025.D

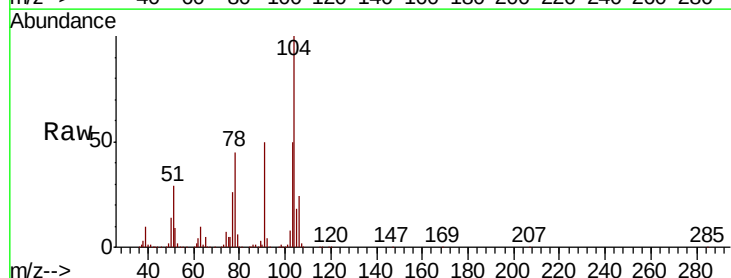
Acq: 31 Jul 2020 17:23

Tgt Ion:104 Resp: 482677

Ion Ratio Lower Upper

104 100

78 44.8 32.0 59.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW

300000

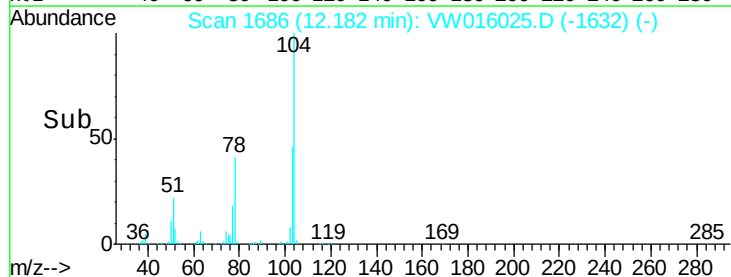
200000

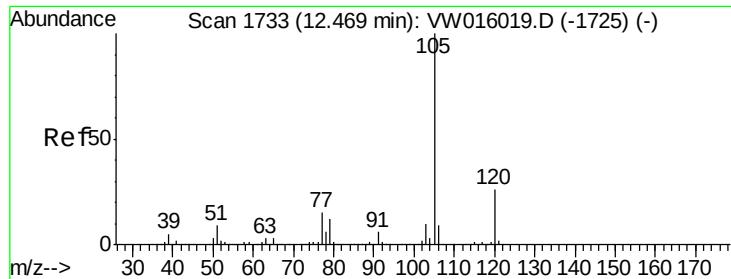
100000

0

12.10 12.20

Time-->





#57

Isopropylbenzene

Concen: 28.948 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

VSTD02522

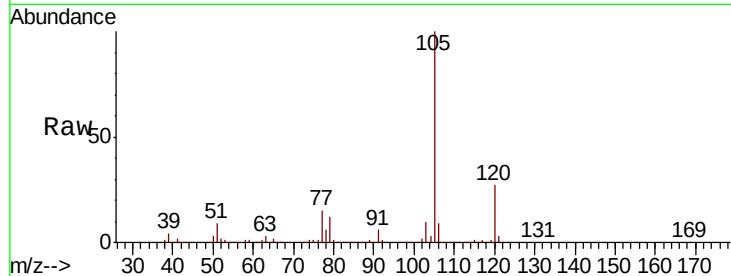
Tot Ion:105 Resp: 762850

Ion Ratio Lower Upper

105 100

120 26.1 20.4 30.6

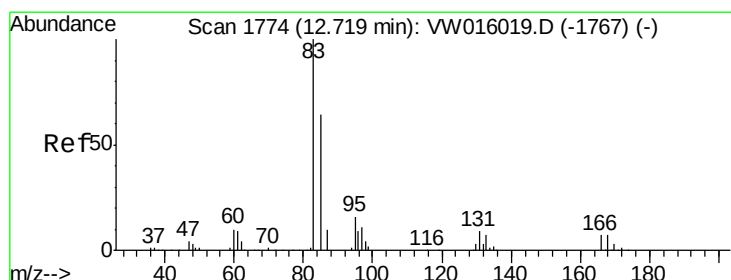
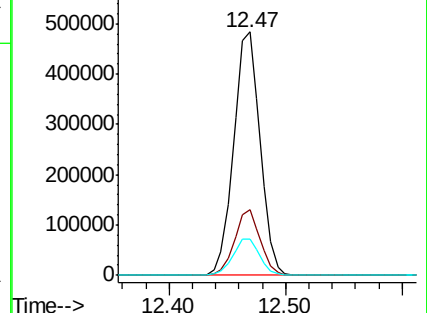
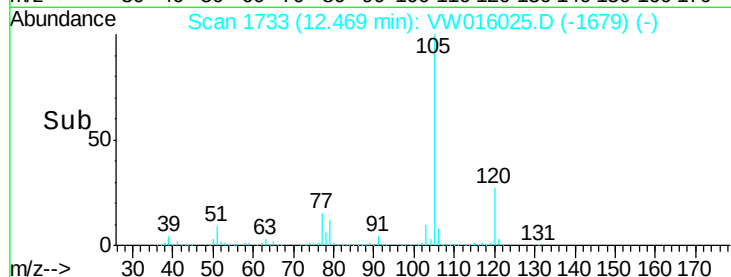
77 15.2 12.9 19.3



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: 32.859 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

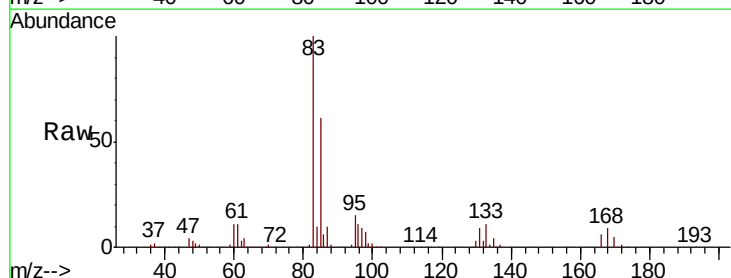
Tgt Ion: 83 Resp: 160150

Ion Ratio Lower Upper

83 100

85 61.1 45.1 83.7

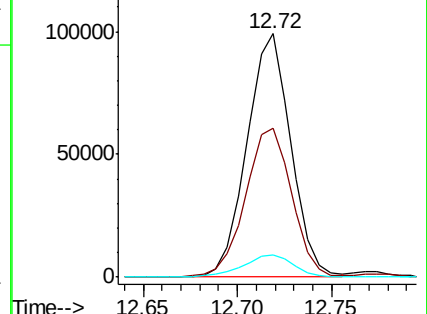
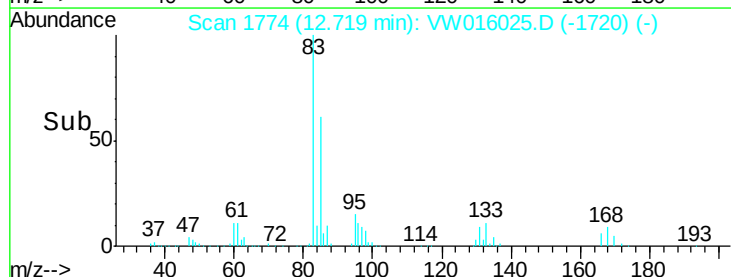
131 9.2 8.2 12.4

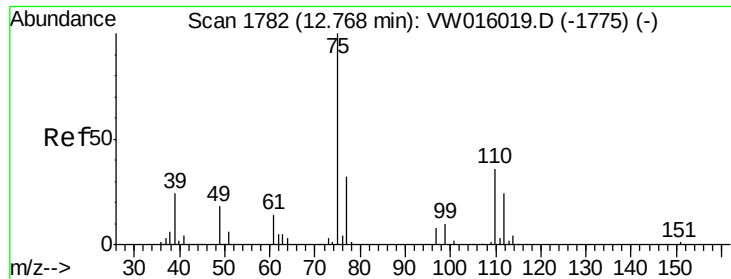


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 32.284 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. 0.01 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

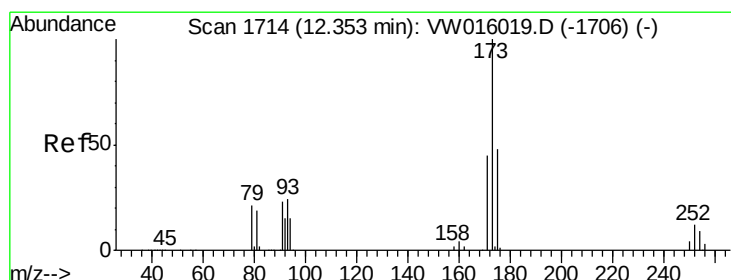
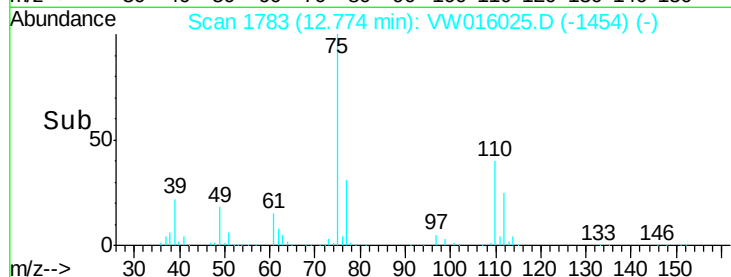
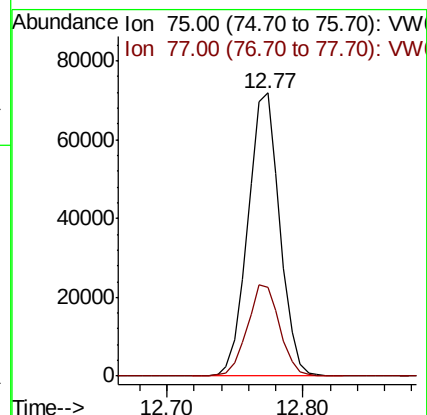
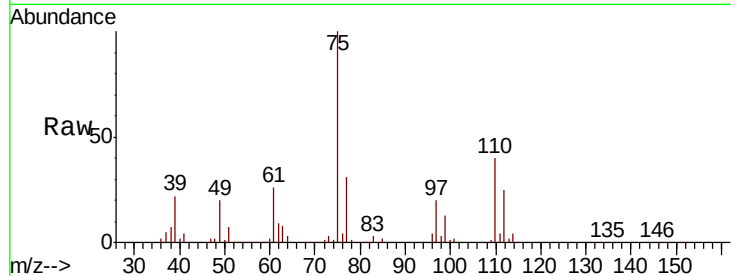
VSTD02522

Tot Ion: 75 Resp: 117894

Ion Ratio Lower Upper

75 100

77 32.9 26.0 39.0



#62

Bromoform

Concen: 30.426 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

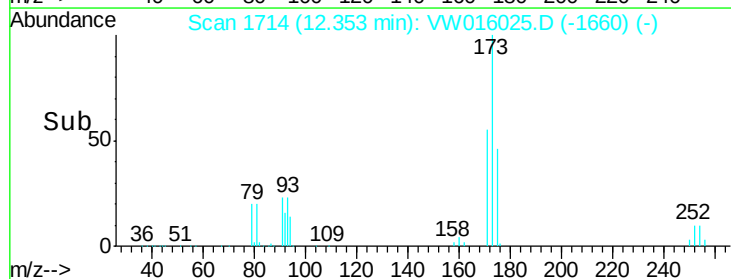
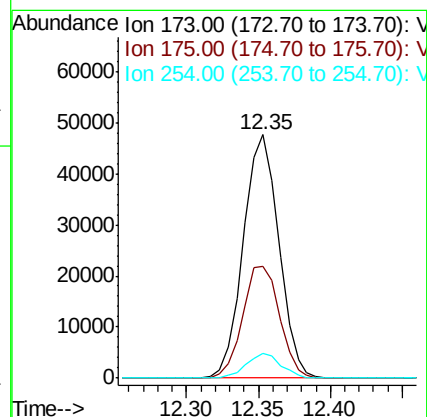
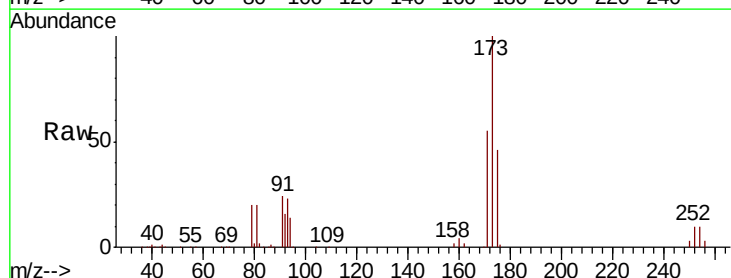
Tgt Ion: 173 Resp: 81378

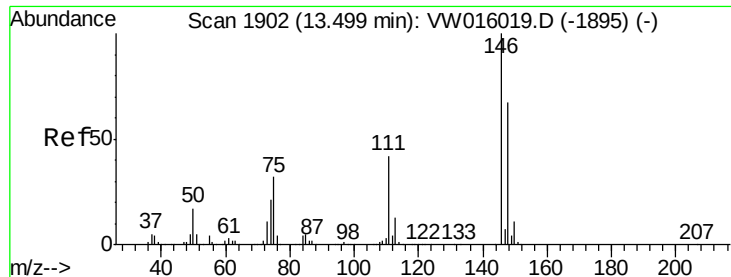
Ion Ratio Lower Upper

173 100

175 47.9 38.7 58.1

254 9.9 7.9 11.9

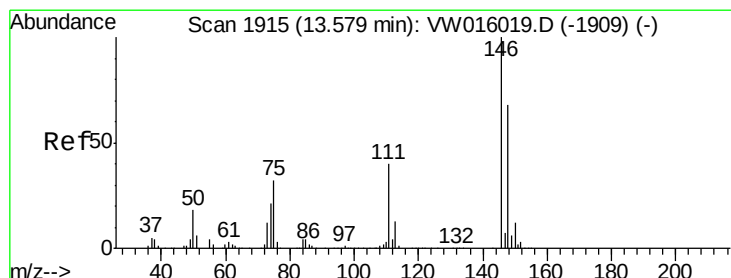
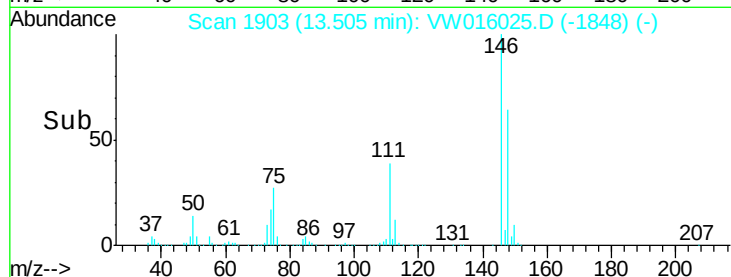
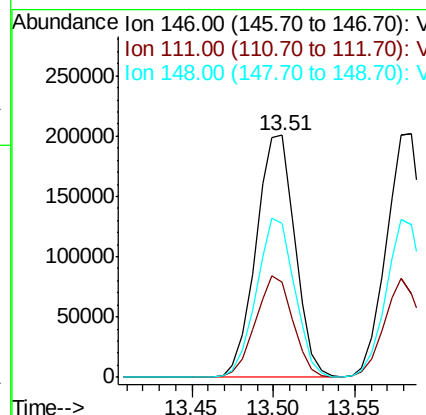
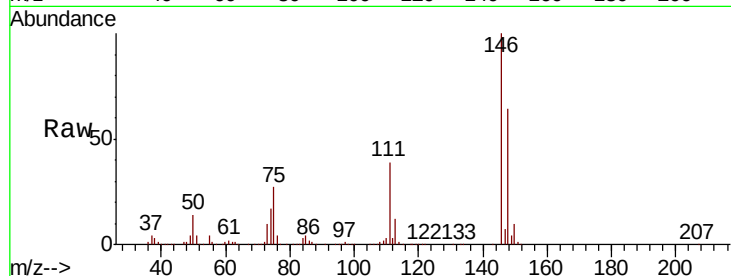




#63
 1,3-Dichlorobenzene
 Concen: 28.650 ug/L
 RT: 13.51 min Scan# 1903
 Delta R.T. 0.01 min
 Lab File: VW016025.D
 Acq: 31 Jul 2020 17:23

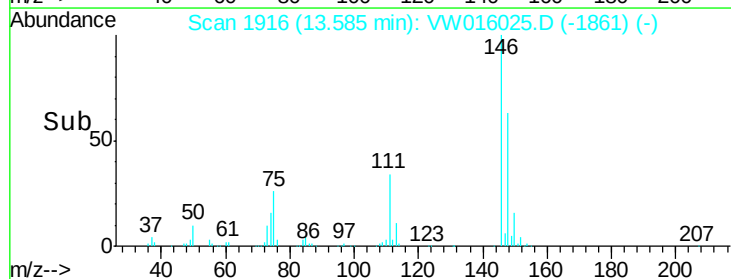
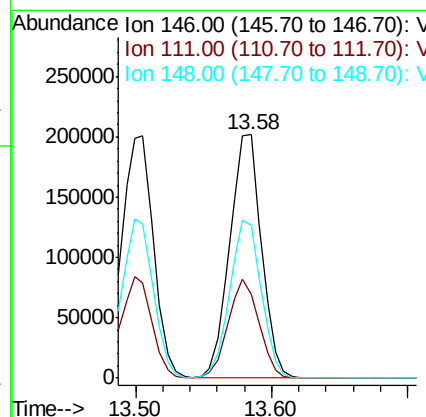
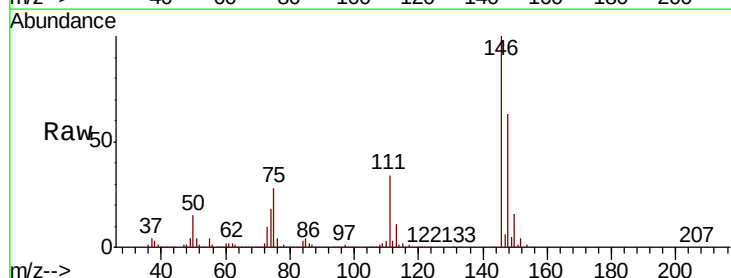
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02522

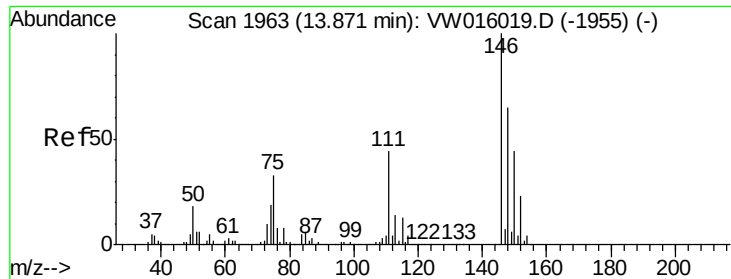
Tot Ion:146 Resp: 333382
 Ion Ratio Lower Upper
 146 100
 111 39.2 27.9 51.7
 148 63.8 43.2 80.2



#64
 1,4-Dichlorobenzene
 Concen: 27.789 ug/L
 RT: 13.58 min Scan# 1916
 Delta R.T. 0.01 min
 Lab File: VW016025.D
 Acq: 31 Jul 2020 17:23

Tgt Ion:146 Resp: 328184
 Ion Ratio Lower Upper
 146 100
 111 34.2 29.3 54.3
 148 62.9 44.5 82.7

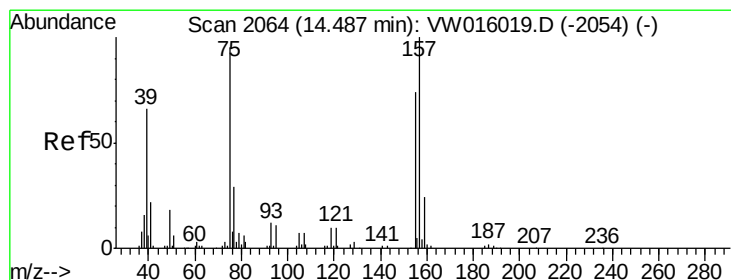
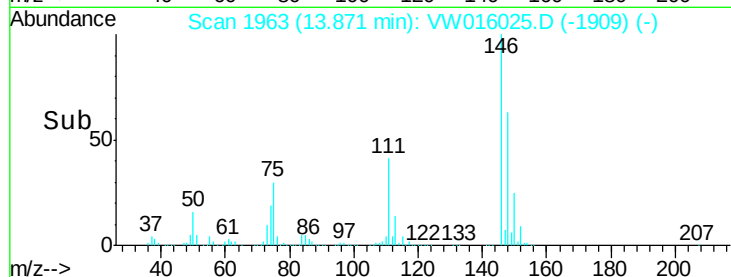
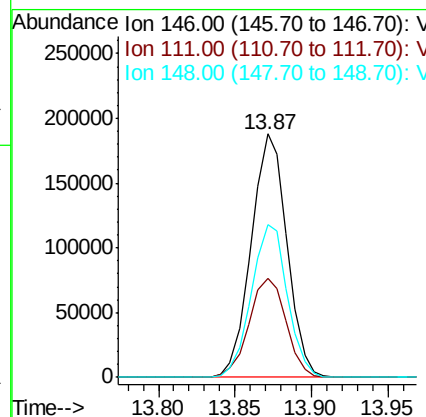
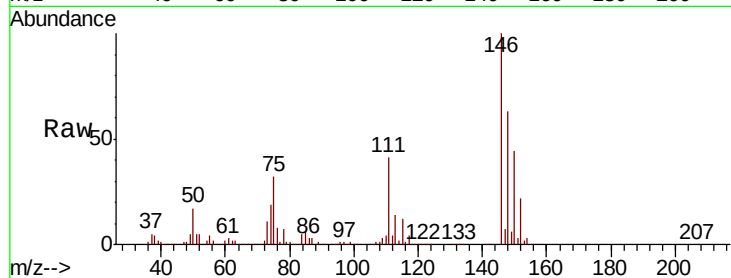




#65
 1,2-Dichlorobenzene
 Concen: 28.879 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW016025.D
 Acq: 31 Jul 2020 17:23

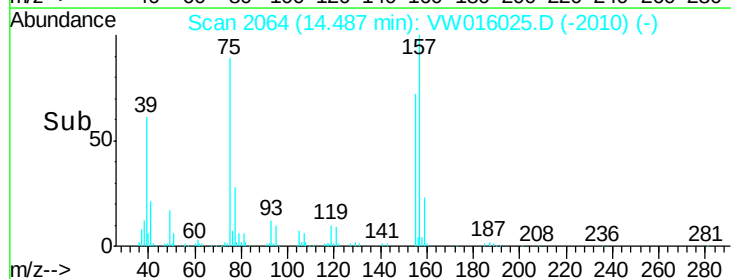
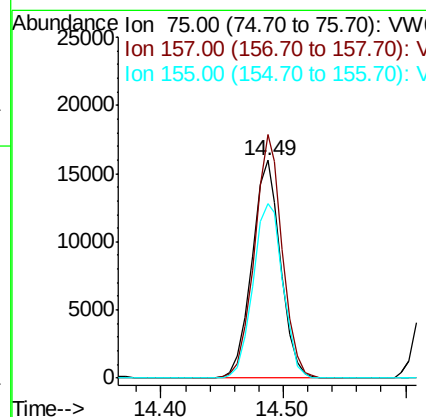
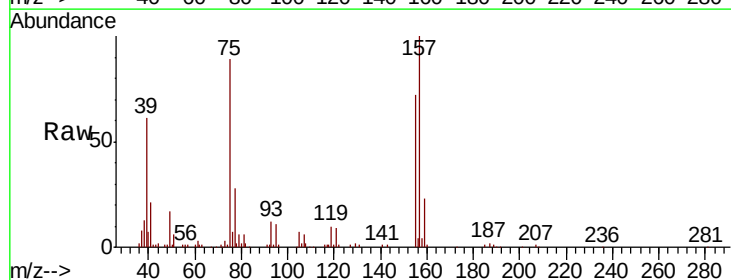
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02522

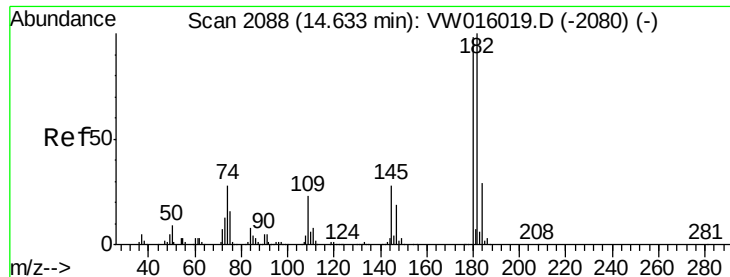
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.8	32.9	49.3
148	63.0	48.8	73.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 32.608 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW016025.D
 Acq: 31 Jul 2020 17:23

Tgt Ion	Ratio	Lower	Upper
75	100		
157	112.0	83.0	124.4
155	80.2	66.9	100.3

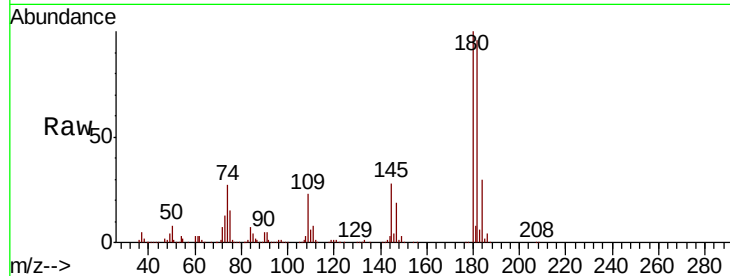




#67
 1,3,5-Trichlorobenzene
 Concen: 29.282 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. -0.00 min
 Lab File: VW016025.D
 Acq: 31 Jul 2020 17:23

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02522

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.6	75.4	113.0
184	29.6	24.6	37.0
145	29.2	24.1	36.1

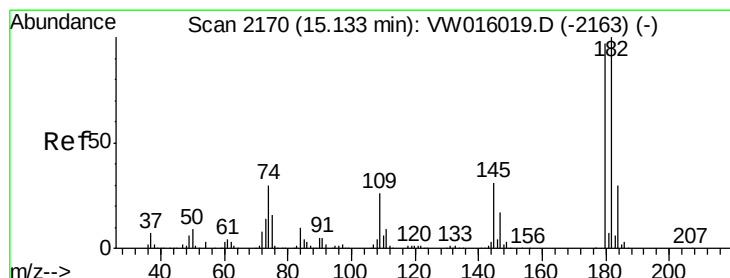
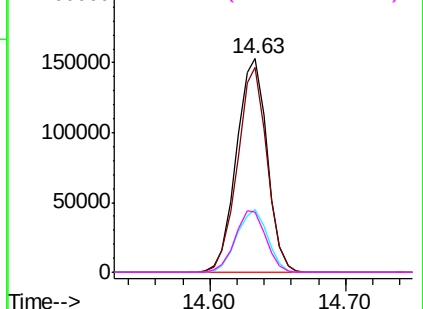
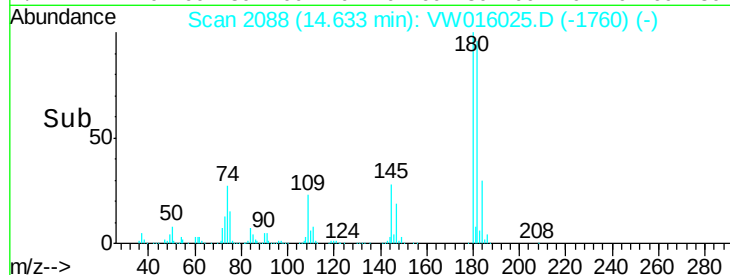


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

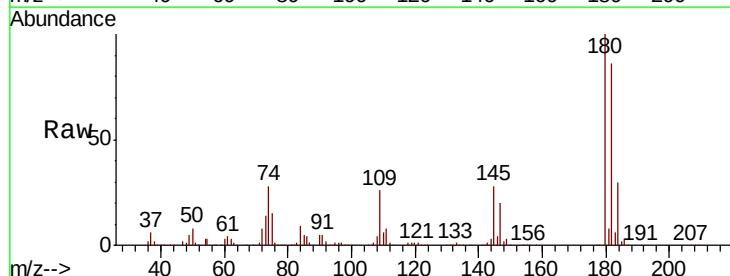
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 30.623 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW016025.D
 Acq: 31 Jul 2020 17:23

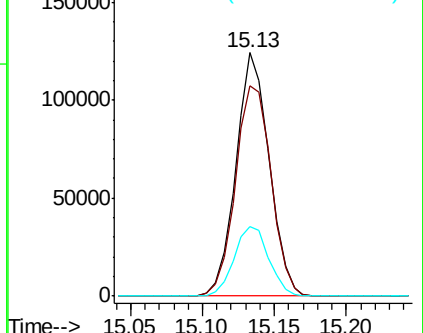
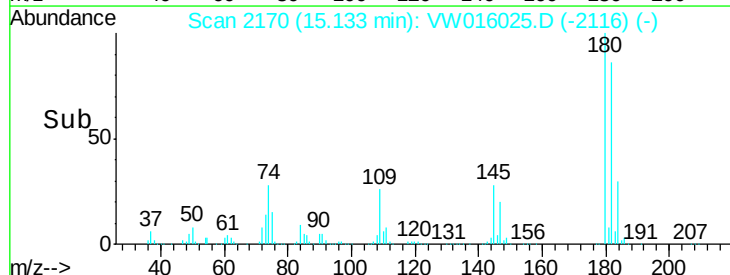
Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.9	76.0	114.0
145	30.0	24.3	36.5

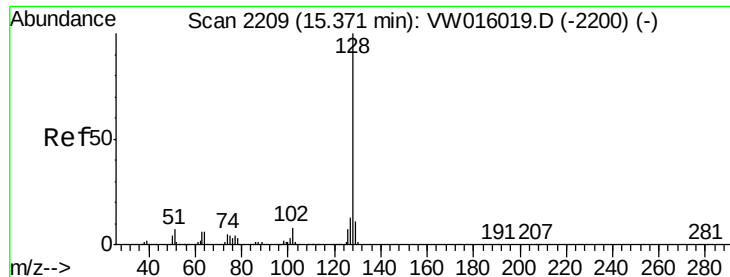


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 34.993 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

VSTD02522

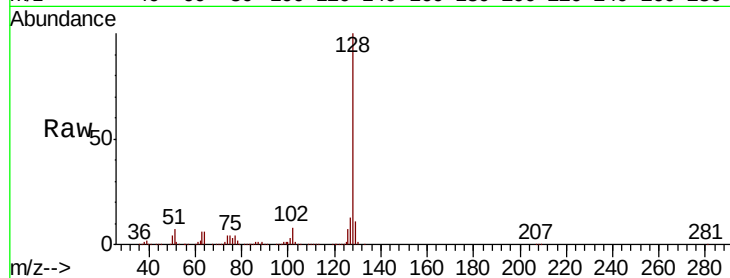
Tot Ion:128 Resp: 428435

Ion Ratio Lower Upper

128 100

129 11.0 8.6 12.8

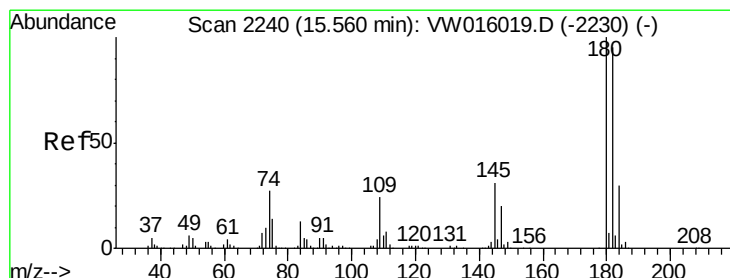
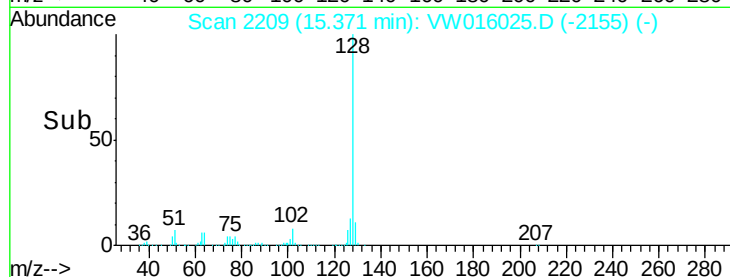
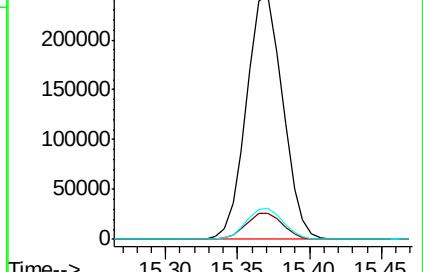
127 12.9 10.5 15.7



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: 31.168 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.01 min

Lab File: VW016025.D

Acq: 31 Jul 2020 17:23

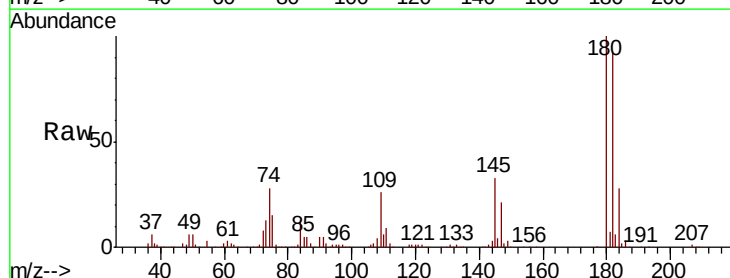
Tgt Ion:180 Resp: 180481

Ion Ratio Lower Upper

180 100

182 93.2 74.0 111.0

145 33.1 25.9 38.9



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

