

Data File : VW014360.D
Acq On : 13 Dec 2019 19:53
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02519

Quant Time: Dec 14 04:33:27 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120519S.M
Quant Title : VOC Analysis
QLast Update : Sat Dec 14 04:28:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1163171	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	1057212	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	523186	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	335447	19.04	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	76.16%
7) Chloroethane-d5	2.88	69	283493	21.65	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.60%
10) 1,1-Dichloroethene-d2	4.02	63	684899	22.01	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	88.04%
20) 2-Butanone-d5	7.07	46	226286	49.30	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	98.60%
24) Chloroform-d	7.65	84	708759	23.93	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.72%
26) 1,2-Dichloroethane-d4	8.30	65	374396	24.11	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.44%
29) Benzene-d6	8.27	84	1438432	23.22	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	92.88%
33) 1,2-Dichloropropane-d6	9.27	67	447745	23.49	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	93.96%
37) Toluene-d8	10.32	98	1292059	23.06	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	92.24%
38) trans-1,3-Dichloropropene-	10.57	79	177541	22.20	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	88.80%
39) 2-Hexanone-d5	10.92	63	179847	47.45	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	94.90%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	362559	23.34	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	93.36%
61) 1,2-Dichlorobenzene-d4	13.85	152	437456	21.88	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	87.52%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	241231	21.805	ug/L	99
3) Chloromethane	2.21	50	237661	21.369	ug/L	97
5) Vinyl chloride	2.36	62	398811	24.219	ug/L	95
6) Bromomethane	2.78	94	233898	23.028	ug/L	98
8) Chloroethane	2.92	64	231592	24.617	ug/L	96
9) Trichlorofluoromethane	3.25	101	189117	23.199	ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	377676	24.617	ug/L	94
12) 1,1-Dichloroethene	4.04	96	366338	23.585	ug/L	83
13) Acetone	4.12	43	178245	40.278	ug/L	99
14) Carbon disulfide	4.38	76	1078296	22.635	ug/L	100
15) Methyl Acetate	4.67	43	191798	22.913	ug/L	97
16) Methylene chloride	4.92	84	422227	23.679	ug/L	96
17) Methyl tert-butyl Ether	5.42	73	480890	23.477	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	391442	23.532	ug/L	88
19) 1,1-Dichloroethane	6.21	63	729886	24.422	ug/L	98
21) 2-Butanone	7.16	43	267151	44.965	ug/L	96
22) cis-1,2-Dichloroethene	7.16	96	425538	24.042	ug/L	95

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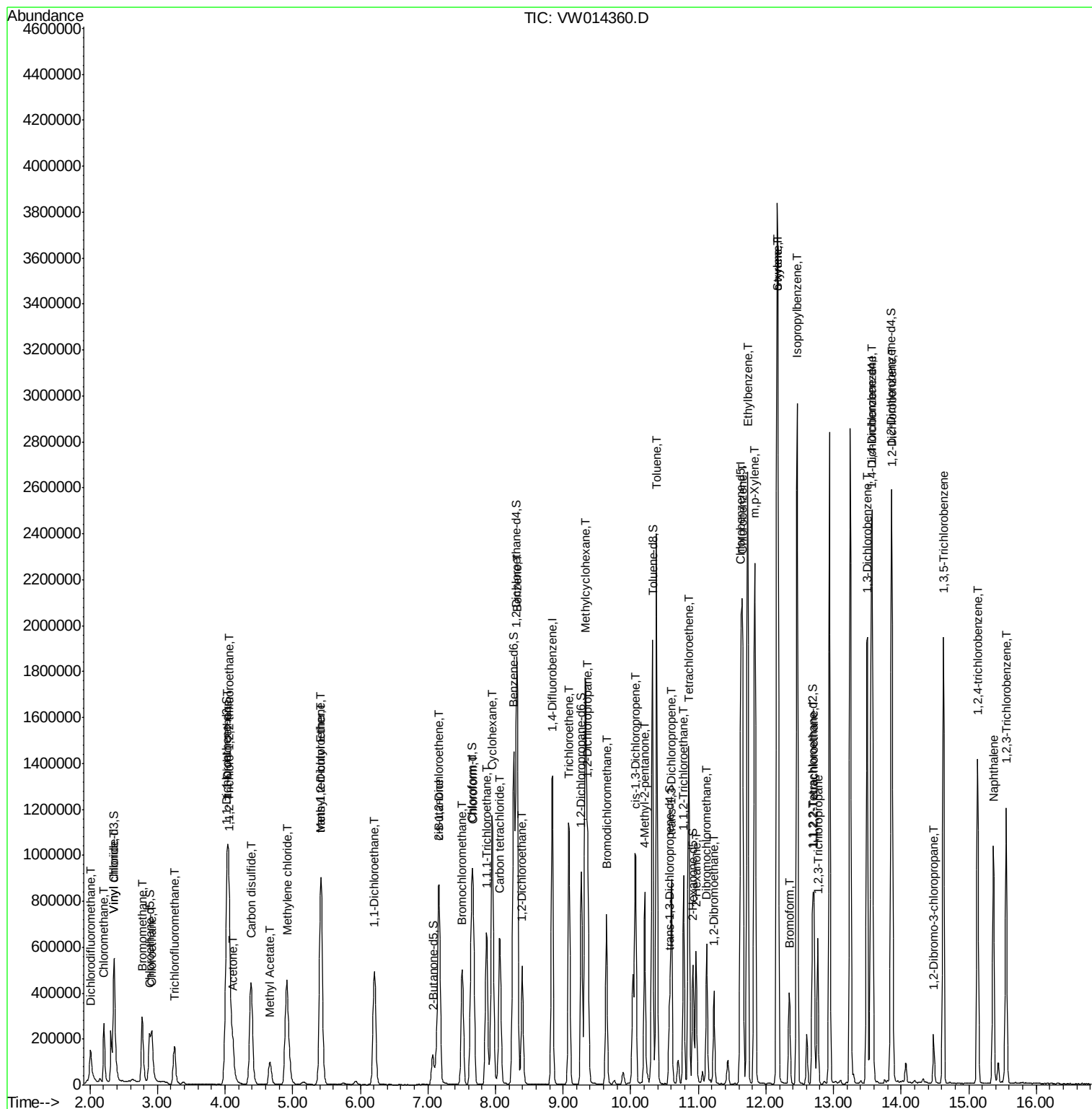
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	184638	22.678	ug/L #	80
25) Chloroform	7.67	83	709901	24.445	ug/L	99
27) 1,2-Dichloroethane	8.40	62	458762	24.124	ug/L	96
30) Cyclohexane	7.95	56	683905	25.917	ug/L	97
31) 1,1,1-Trichloroethane	7.87	97	538807	25.377	ug/L	97
32) Carbon tetrachloride	8.07	117	502407	24.939	ug/L	99
34) Benzene	8.32	78	1648707	24.630	ug/L	100
35) Trichloroethene	9.09	95	410998	23.997	ug/L	95
36) Methylcyclohexane	9.33	83	722839	25.115	ug/L	96
40) 1,2-Dichloropropane	9.37	63	418486	24.334	ug/L	99
41) Bromodichloromethane	9.64	83	505941	24.208	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	622705	24.179	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	547575	48.286	ug/L	98
44) Toluene	10.38	91	1741716	24.818	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	493166	23.656	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	294332	22.840	ug/L	96
47) Tetrachloroethene	10.86	164	339009	23.748	ug/L	97
49) 2-Hexanone	10.97	43	372480	46.136	ug/L	98
50) Dibromochloromethane	11.12	129	335572	23.202	ug/L	98
51) 1,2-Dibromoethane	11.23	107	275508	22.571	ug/L #	98
52) Chlorobenzene	11.66	112	1074779	23.696	ug/L	96
53) Ethylbenzene	11.73	91	1911817	25.106	ug/L	99
54) m,p-Xylene	11.83	106	727879	24.848	ug/L	99
55) o-xylene	12.16	106	692992	24.942	ug/L	99
56) Styrene	12.18	104	1206565	25.384	ug/L	98
57) Isopropylbenzene	12.46	105	1849388	25.639	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	364504	22.789	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	268129	22.560	ug/L	100
62) Bromoform	12.35	173	193466	21.788	ug/L	100
63) 1,3-Dichlorobenzene	13.50	146	839986	23.887	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	825018	23.092	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	757805	23.173	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.48	75	54492	21.601	ug/L #	82
67) 1,3,5-Trichlorobenzene	14.63	180	617971	24.425	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	476850	24.177	ug/L	98
69) Naphthalene	15.36	128	868152	23.406	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	437210	23.638	ug/L	99

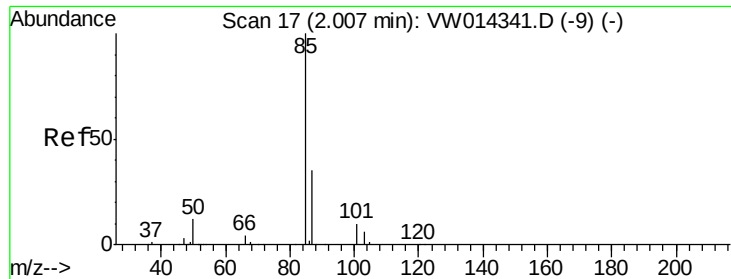
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 21.805 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

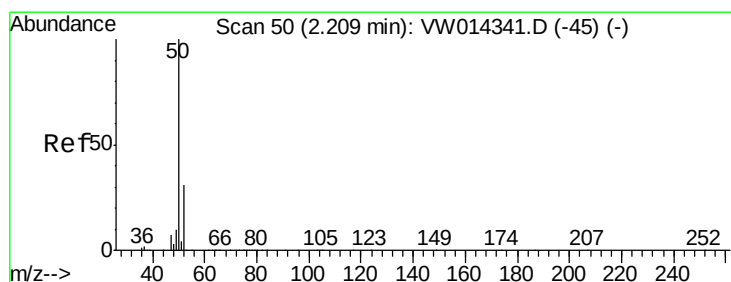
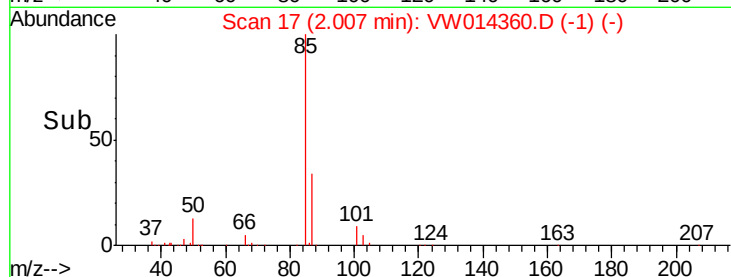
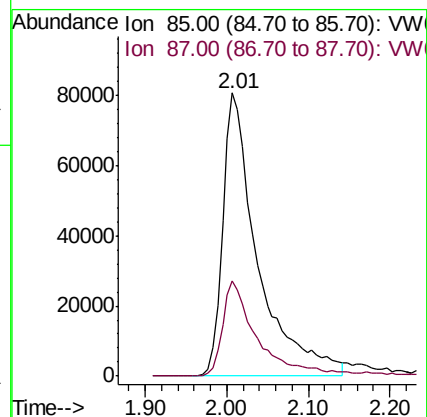
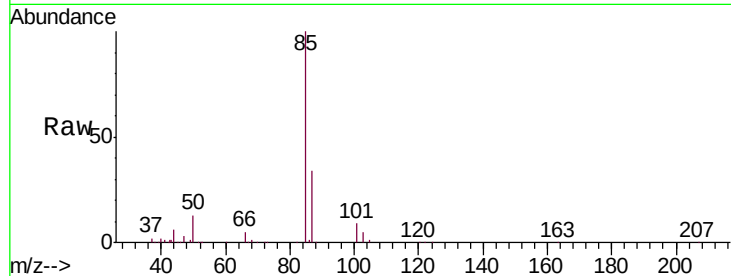
VSTD02519

Tgt Ion: 85 Resp: 241231

Ion Ratio Lower Upper

85 100

87 31.2 22.1 41.1



#3

Chloromethane

Concen: 21.369 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW014360.D

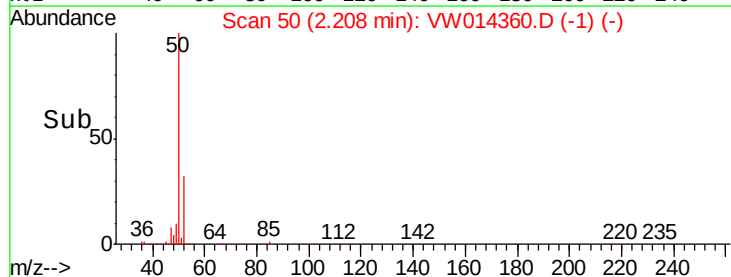
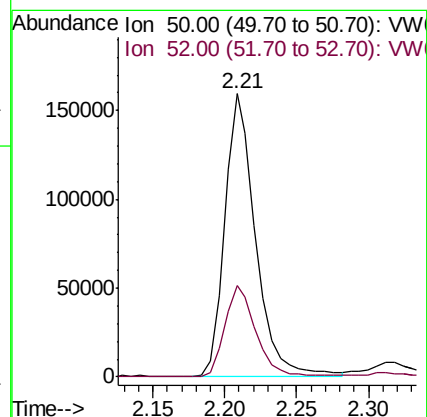
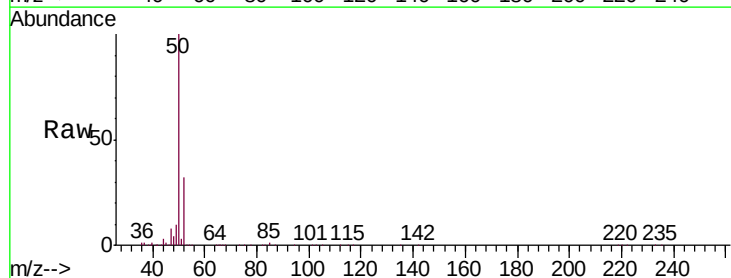
Acq: 13 Dec 2019 19:53

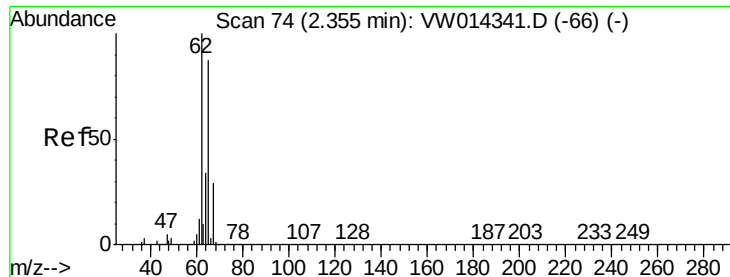
Tgt Ion: 50 Resp: 237661

Ion Ratio Lower Upper

50 100

52 32.5 23.8 44.2





#5

Vinyl chloride

Concen: 24.219 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.01 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

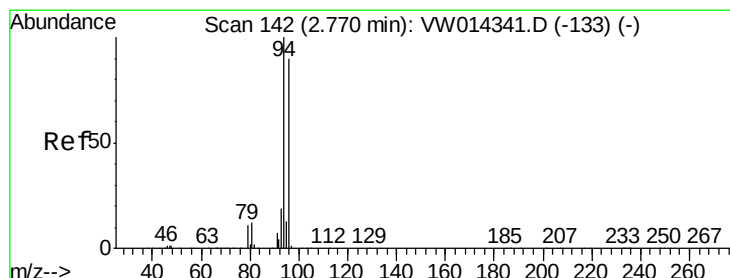
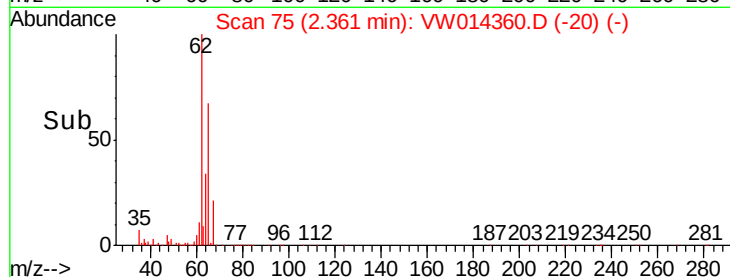
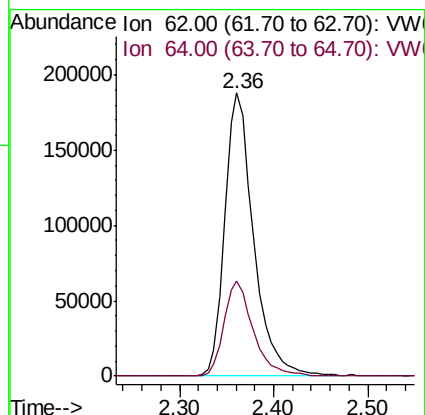
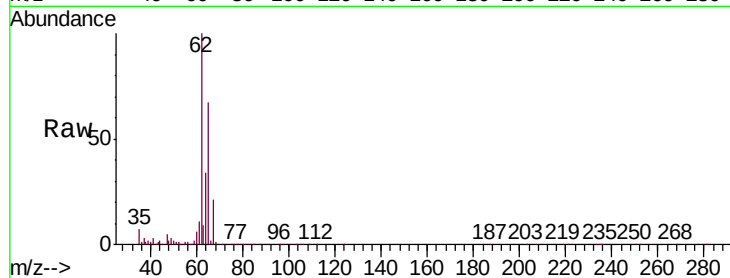
VSTD02519

Tgt Ion: 62 Resp: 398811

Ion Ratio Lower Upper

62 100

64 33.9 21.8 40.4



#6

Bromomethane

Concen: 23.028 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.01 min

Lab File: VW014360.D

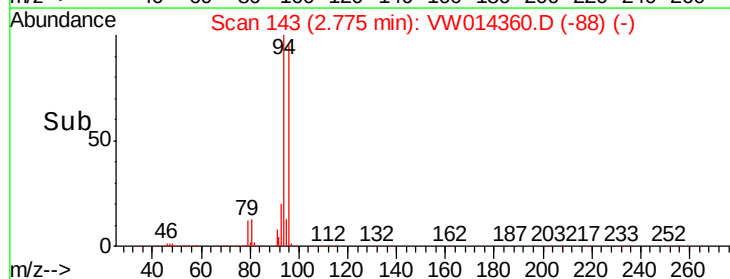
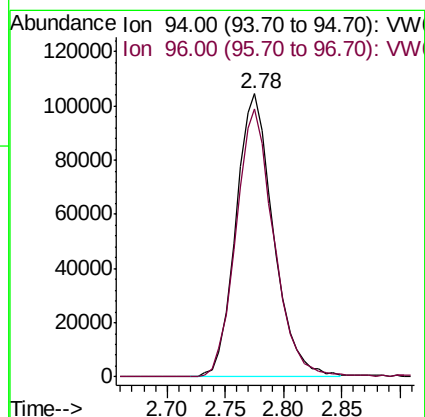
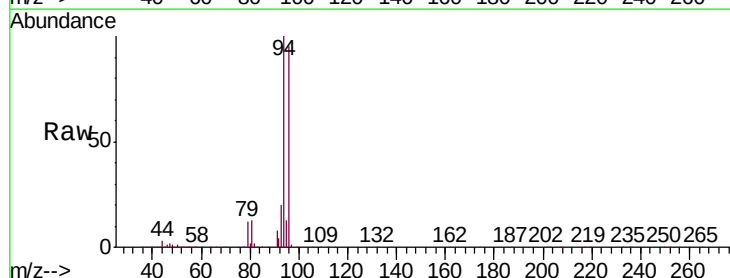
Acq: 13 Dec 2019 19:53

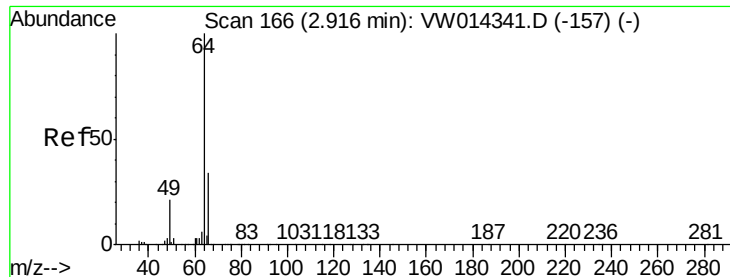
Tgt Ion: 94 Resp: 233898

Ion Ratio Lower Upper

94 100

96 95.7 9.4 178.8





#8

Chloroethane

Concen: 24.617 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.01 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

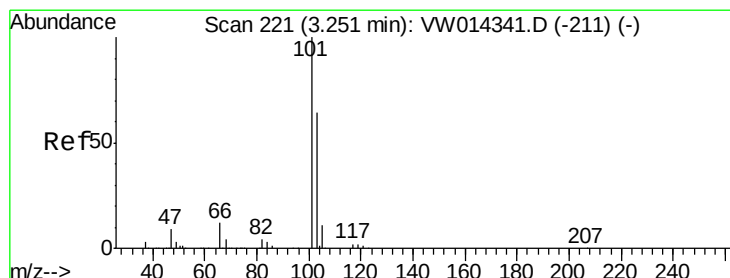
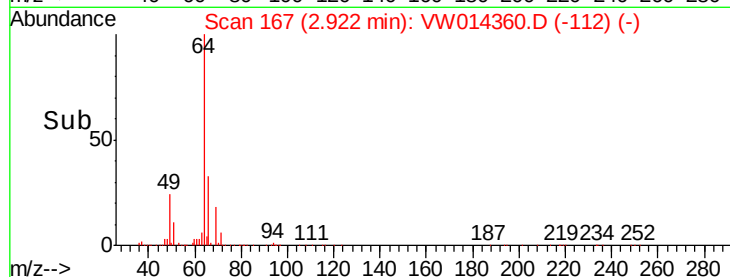
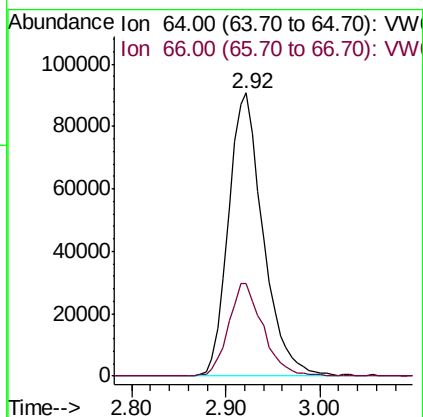
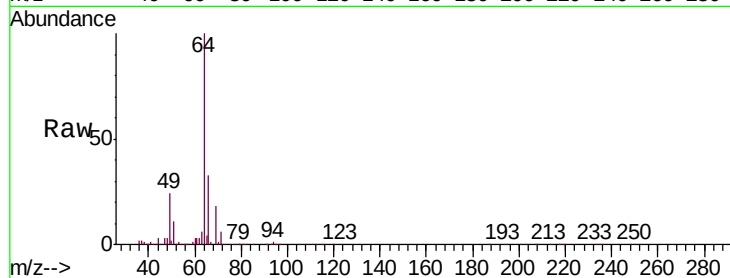
VSTD02519

Tgt Ion: 64 Resp: 231592

Ion Ratio Lower Upper

64 100

66 32.7 21.2 39.4



#9

Trichlorofluoromethane

Concen: 23.199 ug/L

RT: 3.25 min Scan# 221

Delta R.T. -0.00 min

Lab File: VW014360.D

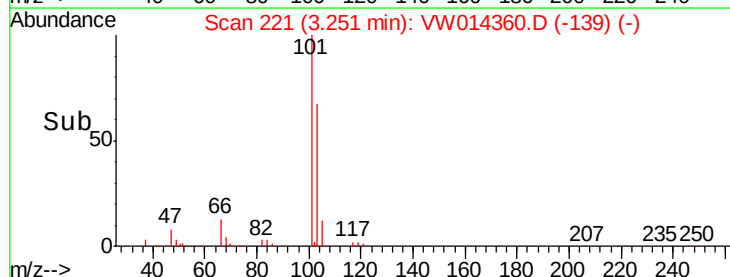
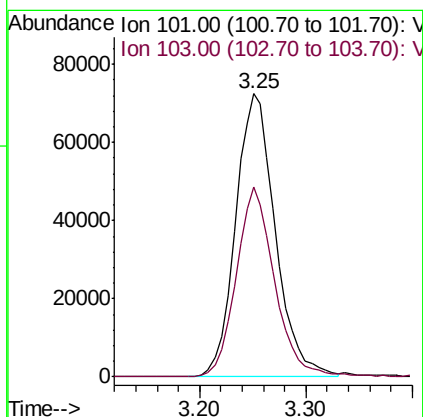
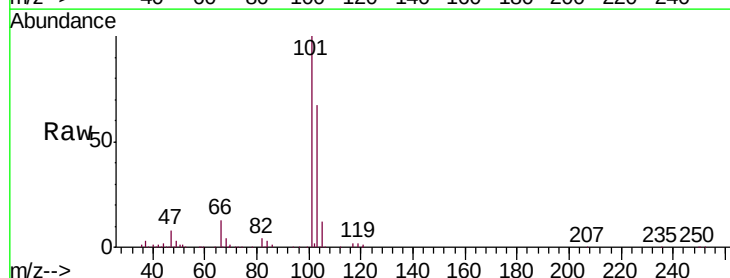
Acq: 13 Dec 2019 19:53

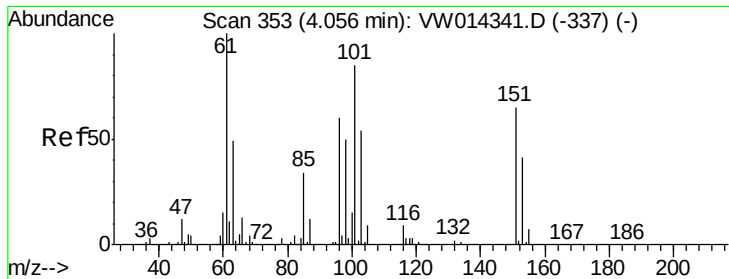
Tgt Ion: 101 Resp: 189117

Ion Ratio Lower Upper

101 100

103 64.8 45.4 84.2





#11

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

Concen: 24.617 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.01 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

Instrument :

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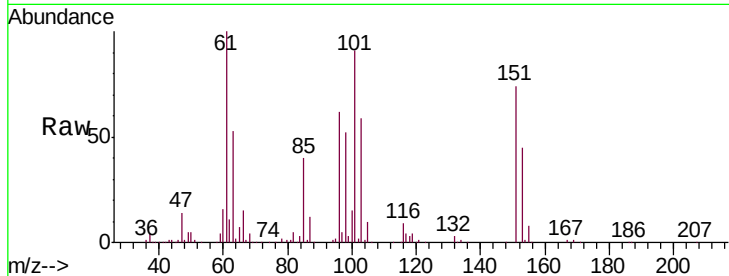
Tgt Ion:101 Resp: 377676

Ion Ratio Lower Upper

101 100

85 41.8 31.4 47.2

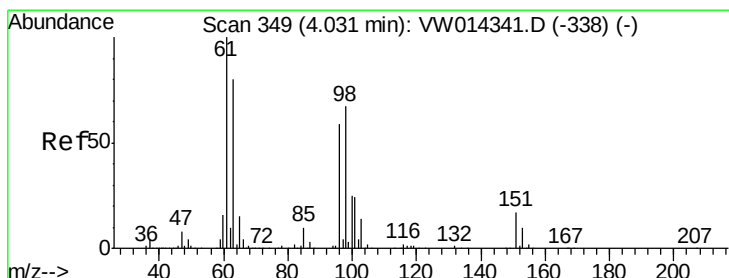
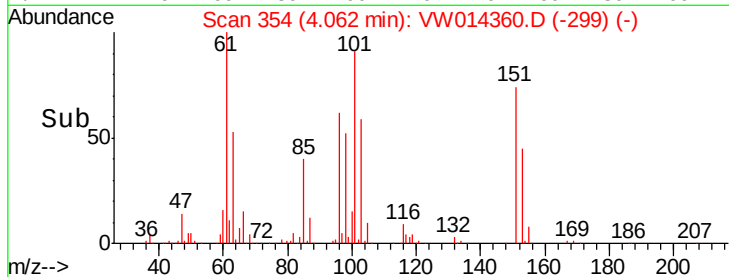
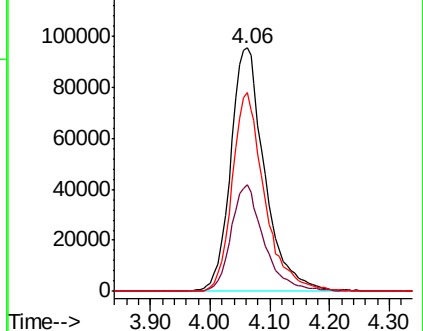
151 77.3 66.9 100.3



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: 23.585 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.01 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

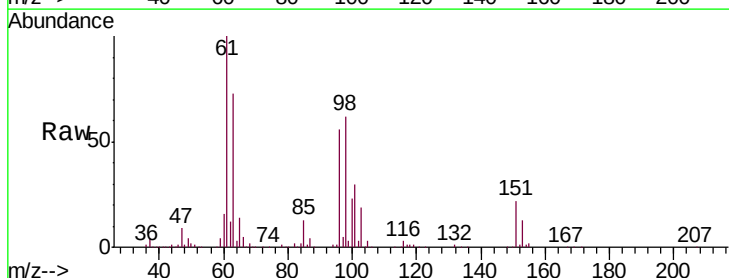
Tgt Ion: 96 Resp: 366338

Ion Ratio Lower Upper

96 100

61 180.0 109.8 204.0

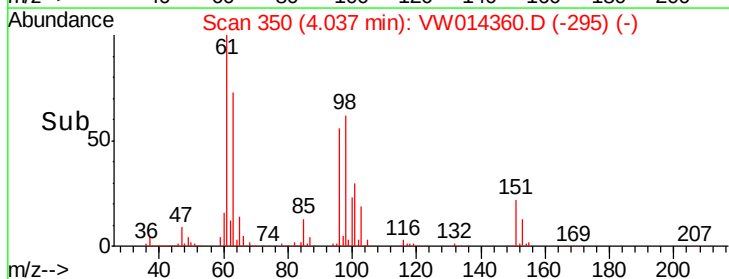
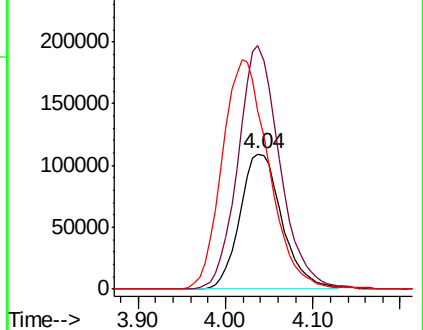
63 131.9 80.7 149.9

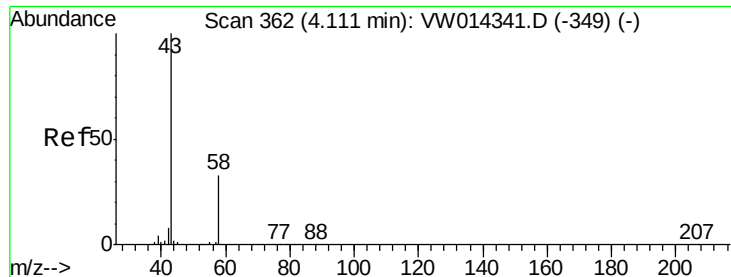


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW

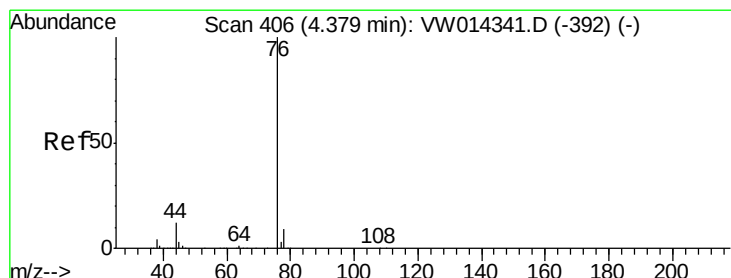
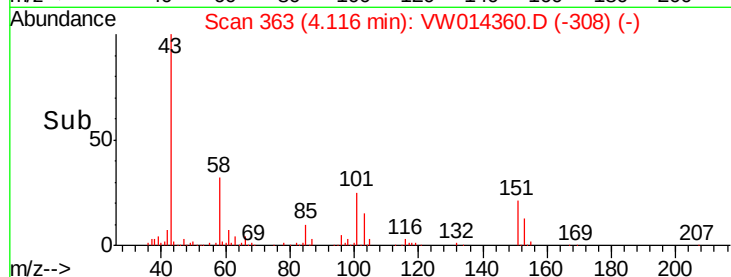
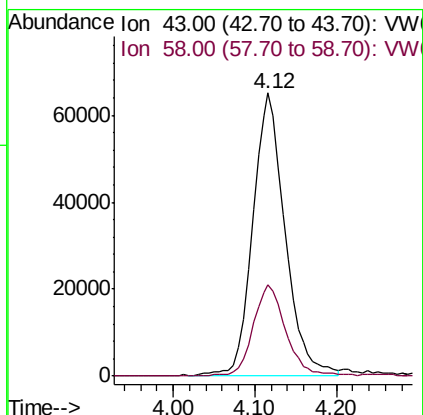
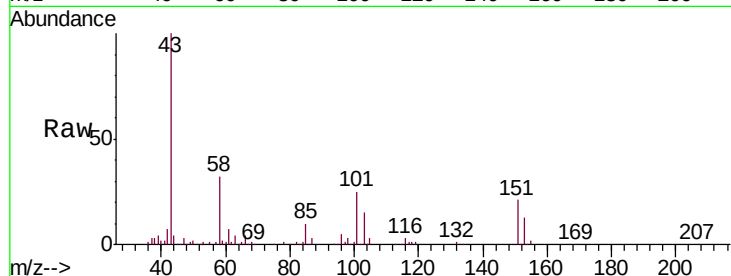




#13
Acetone
Concen: 40.278 ug/L
RT: 4.12 min Scan# 363
Delta R.T. 0.01 min
Lab File: VW014360.D
Acq: 13 Dec 2019 19:53

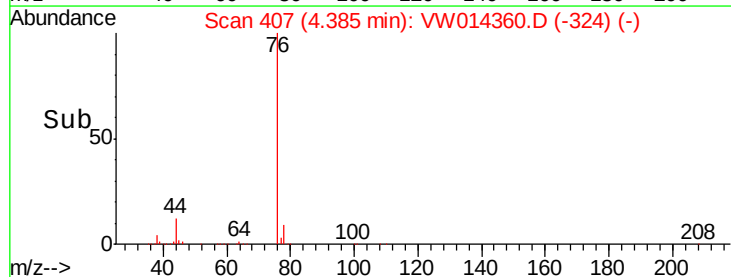
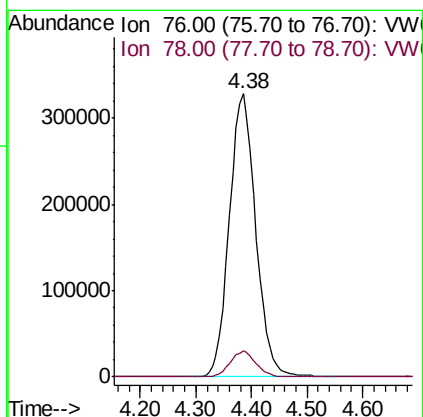
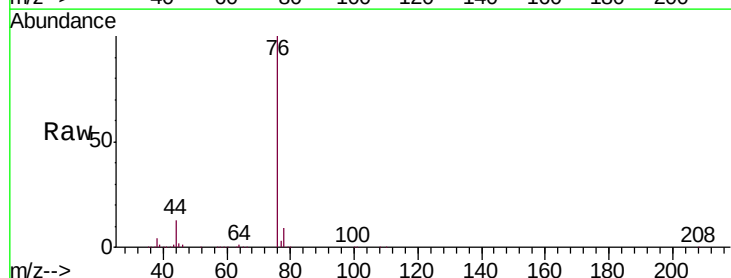
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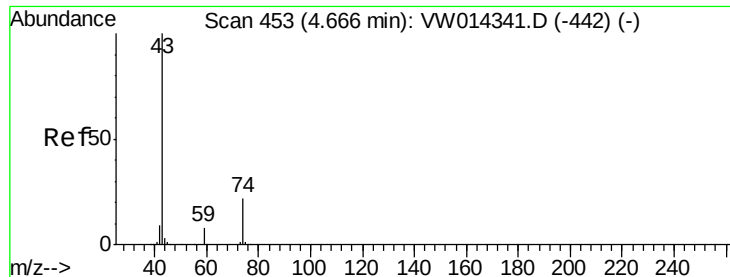
Tgt Ion: 43 Resp: 178245
Ion Ratio Lower Upper
43 100
58 33.3 0.0 65.4



#14
Carbon disulfide
Concen: 22.635 ug/L
RT: 4.38 min Scan# 407
Delta R.T. 0.01 min
Lab File: VW014360.D
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Tgt Ion: 76 Resp: 1078296
Ion Ratio Lower Upper
76 100
78 9.1 7.2 10.8

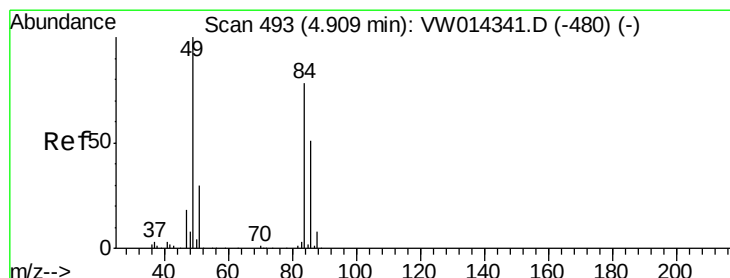
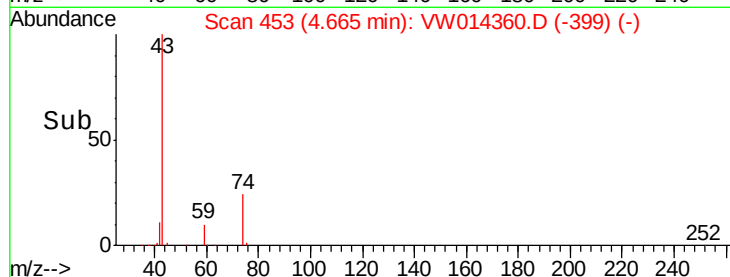
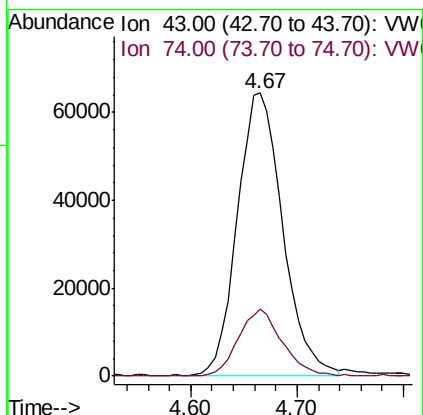
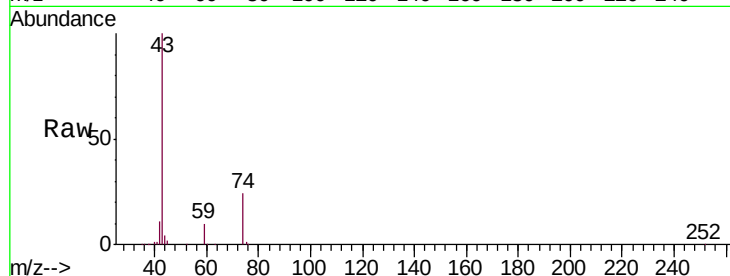




#15
Methyl Acetate
Concen: 22.913 ug/L
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW014360.D
Acq: 13 Dec 2019 19:53

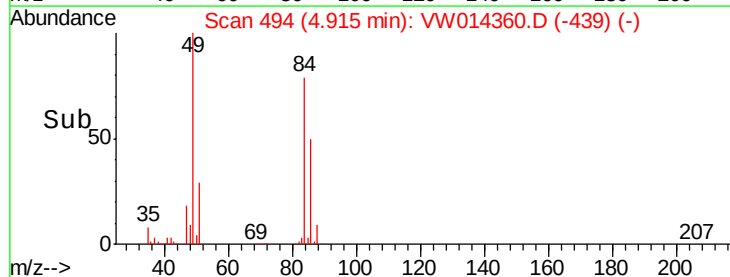
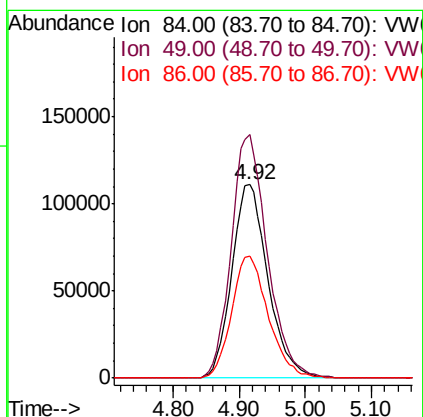
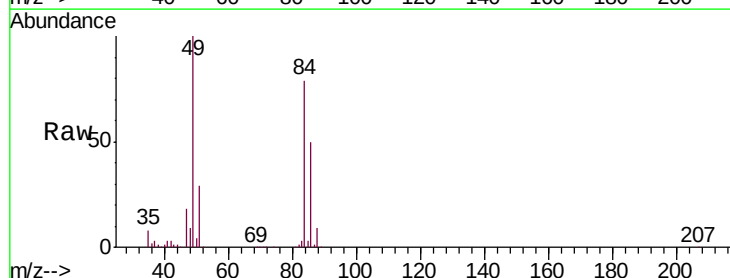
Instrument :
MSVOA_W
ClientSampleId :
VSTD02519

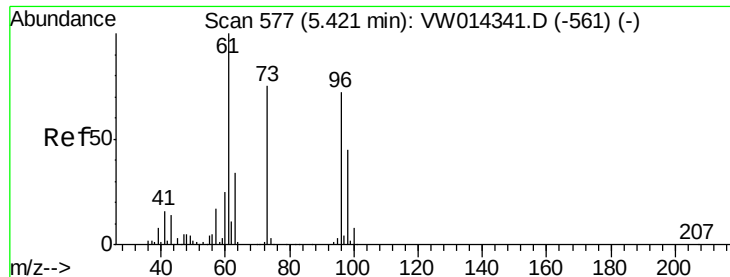
Tgt Ion: 43 Resp: 191798
Ion Ratio Lower Upper
43 100
74 22.8 19.3 28.9



#16
Methylene chloride
Concen: 23.679 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW014360.D
Acq: 13 Dec 2019 19:53

Tgt Ion: 84 Resp: 422227
Ion Ratio Lower Upper
84 100
49 125.9 84.2 156.4
86 63.1 43.7 81.1

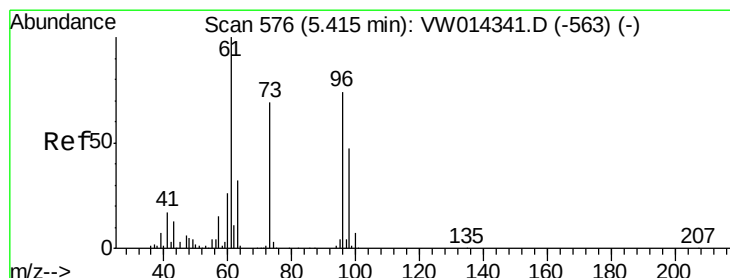
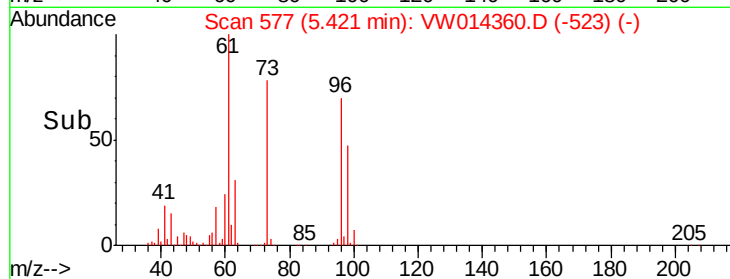
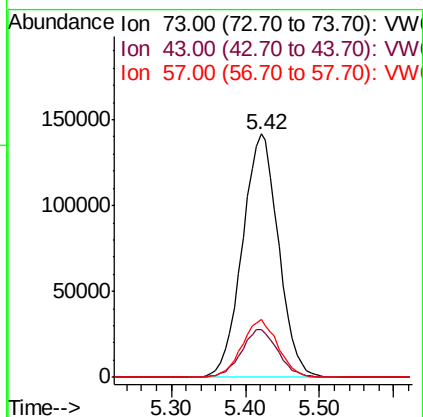
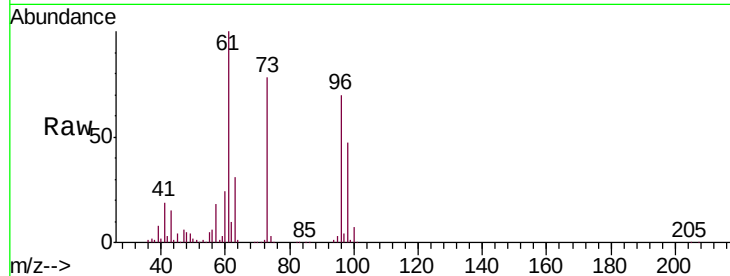




#17
Methyl tert-butyl Ether
Concen: 23.477 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW014360.D
Acq: 13 Dec 2019 19:53

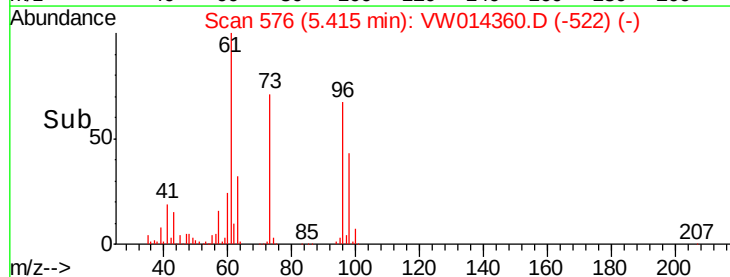
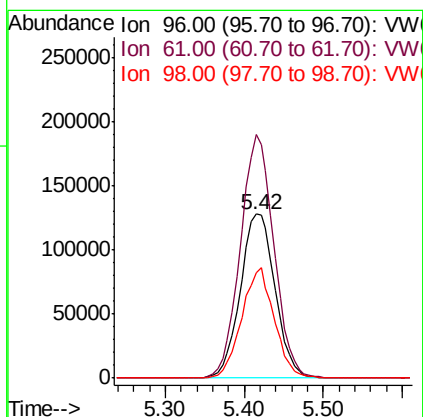
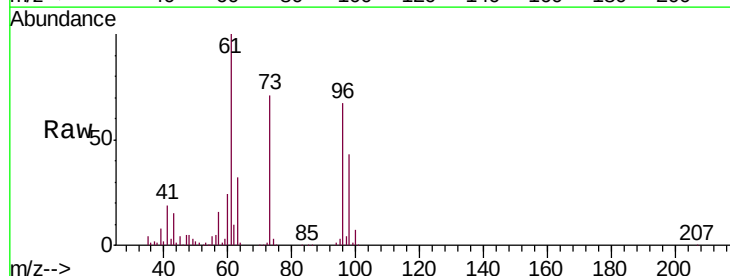
Instrument :
MSVOA_W
ClientSampleId :
VSTD02519

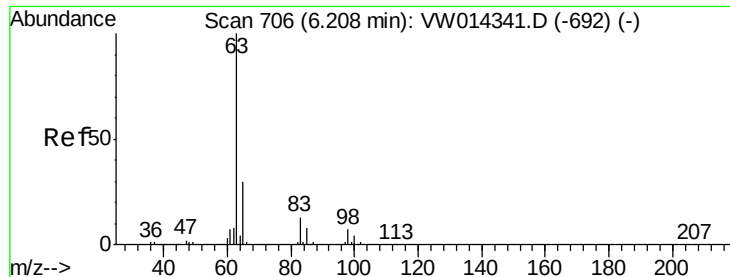
Tgt Ion: 73 Resp: 480890
Ion Ratio Lower Upper
73 100
43 19.8 15.5 23.3
57 23.5 18.2 27.4



#18
trans-1,2-Dichloroethene
Concen: 23.532 ug/L
RT: 5.42 min Scan# 576
Delta R.T. -0.00 min
Lab File: VW014360.D
Acq: 13 Dec 2019 19:53

Tgt Ion: 96 Resp: 391442
Ion Ratio Lower Upper
96 100
61 148.5 90.6 168.2
98 64.1 42.9 79.7

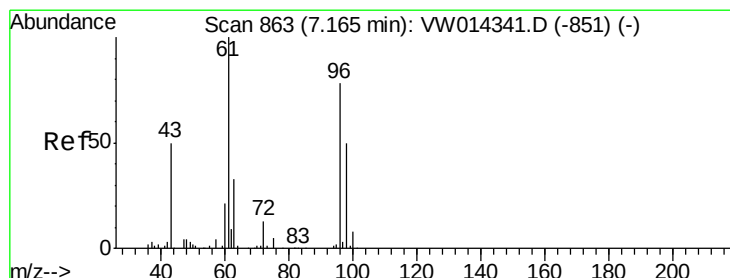
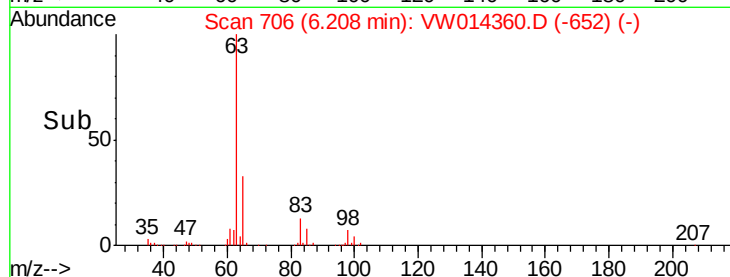
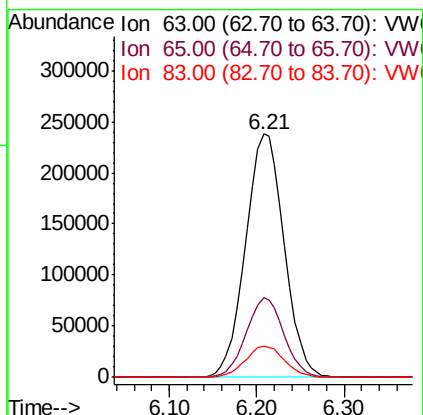
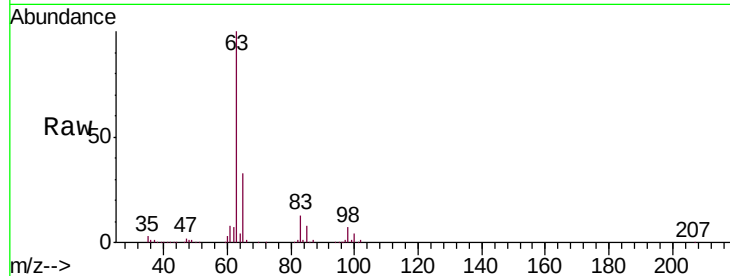




#19
 1,1-Dichloroethane
 Concen: 24.422 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. -0.00 min
 Lab File: VW014360.D
 Acq: 13 Dec 2019 19:53

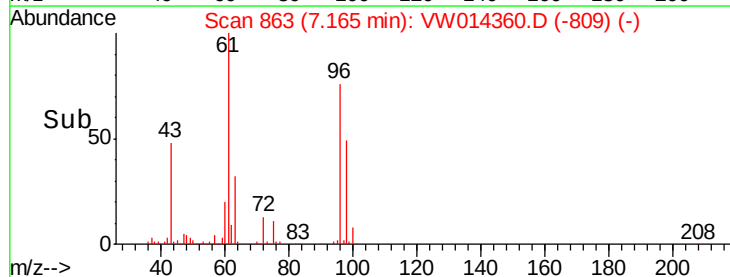
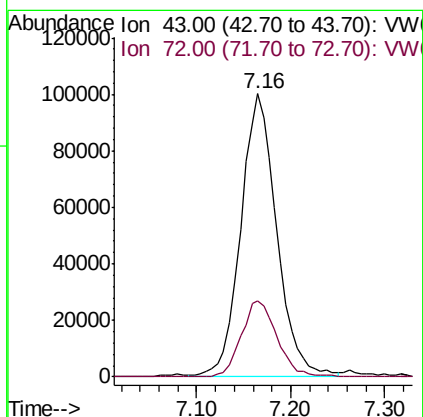
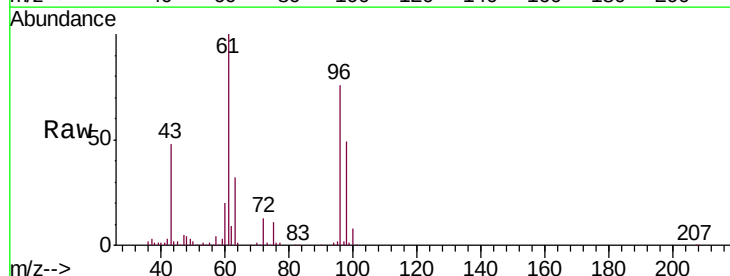
Instrument :
 MSVOA_W
 ClientSampleID :
 VSTD02519

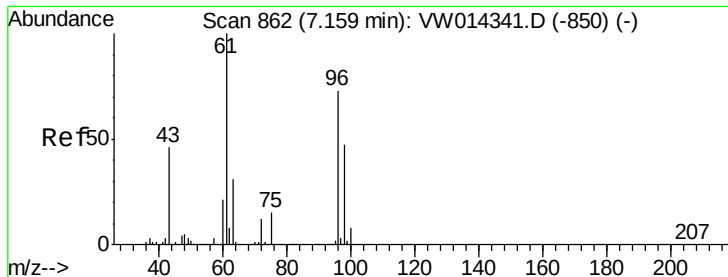
Tgt Ion	Ratio	Lower	Upper
63	100		
65	33.0	22.1	41.1
83	13.0	9.0	16.6



#21
 2-Butanone
 Concen: 44.965 ug/L
 RT: 7.16 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VW014360.D
 Acq: 13 Dec 2019 19:53

Tgt Ion	Ratio	Lower	Upper
43	100		
72	26.1	14.1	42.2



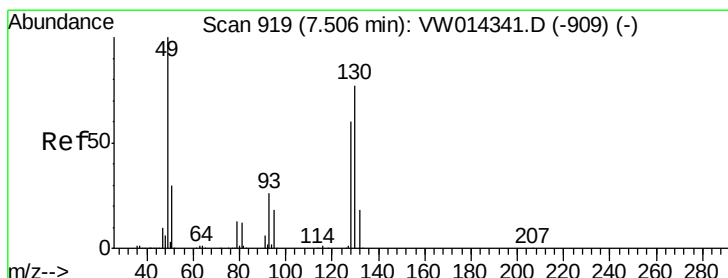
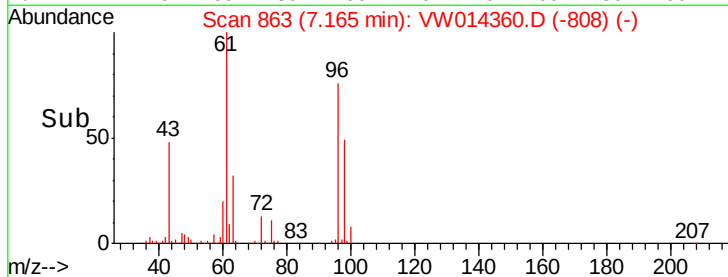
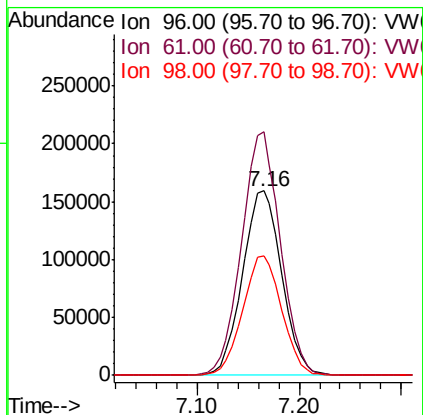
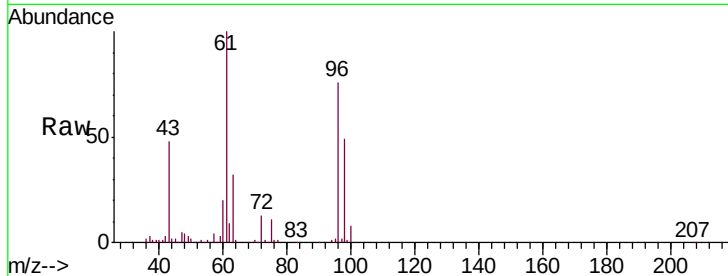


#22

cis-1,2-Dichloroethene
Concen: 24.042 ug/L
RT: 7.16 min Scan# 863
Delta R.T. 0.01 min
Lab File: VW014360.D
Acq: 13 Dec 2019 19:53

Instrument :
MSVOA_W
ClientSampled :
VSTD02519

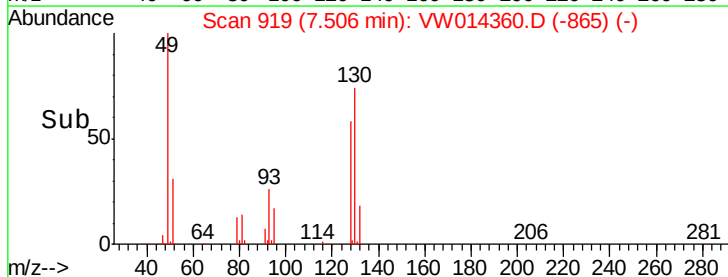
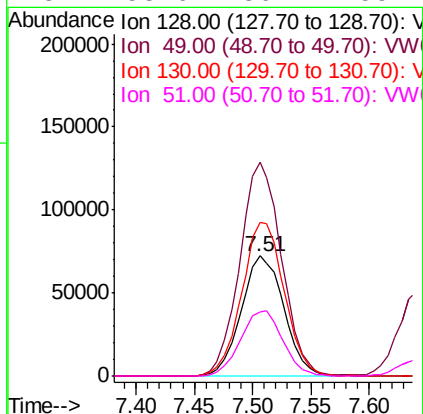
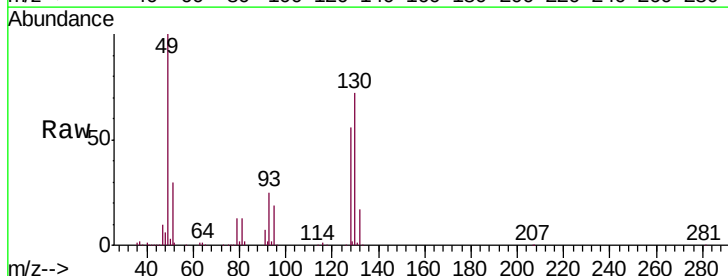
Tgt Ion: 96 Resp: 425538
Ion Ratio Lower Upper
96 100
61 131.9 86.9 161.5
98 64.5 45.5 84.5

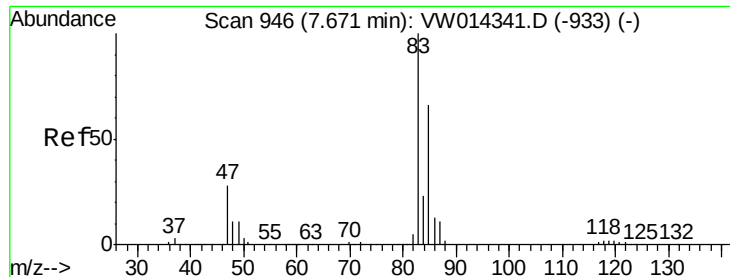


#23

Bromochloromethane
Concen: 22.678 ug/L
RT: 7.51 min Scan# 919
Delta R.T. -0.00 min
Lab File: VW014360.D
Acq: 13 Dec 2019 19:53

Tgt Ion: 128 Resp: 184638
Ion Ratio Lower Upper
128 100
49 178.0 95.1 176.5#
130 127.8 85.0 158.0
51 53.6 36.7 55.1

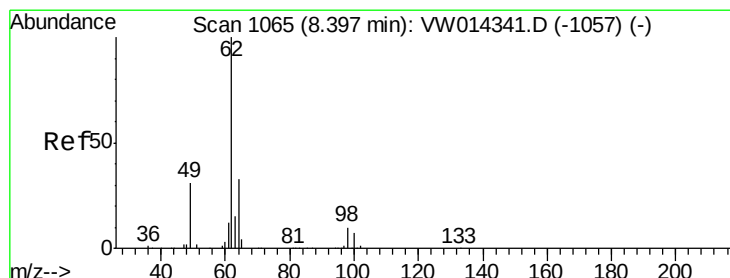
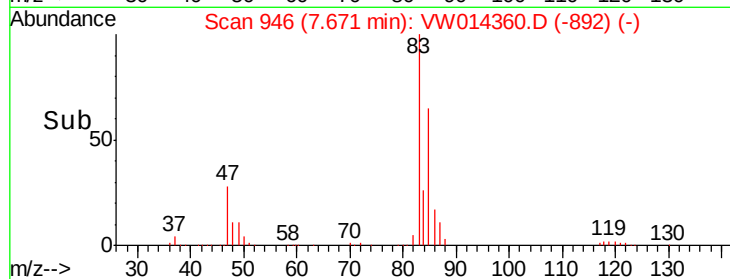
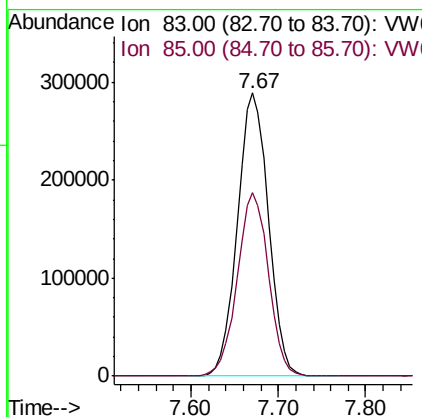
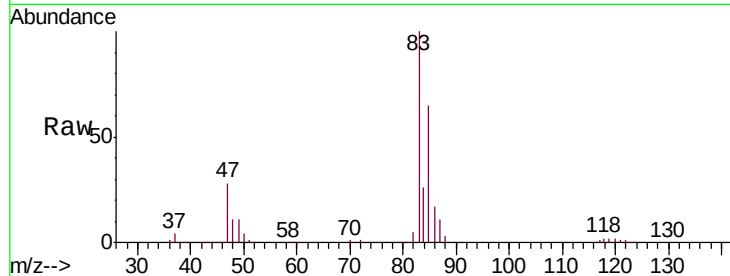




#25
Chloroform
Concen: 24.445 ug/L
RT: 7.67 min Scan# 946
Delta R.T. -0.00 min
Lab File: VW014360.D
Acq: 13 Dec 2019 19:53

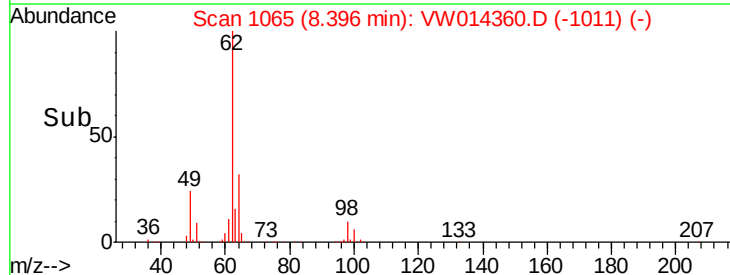
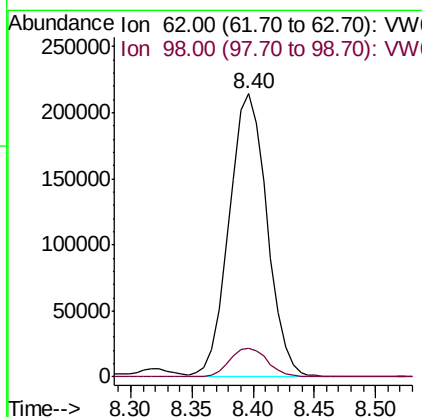
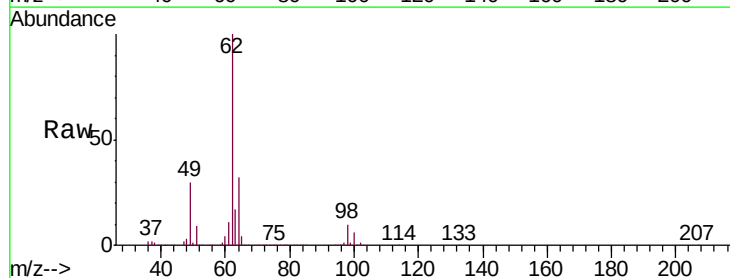
Instrument :
MSVOA_W
ClientSampleId :
VSTD02519

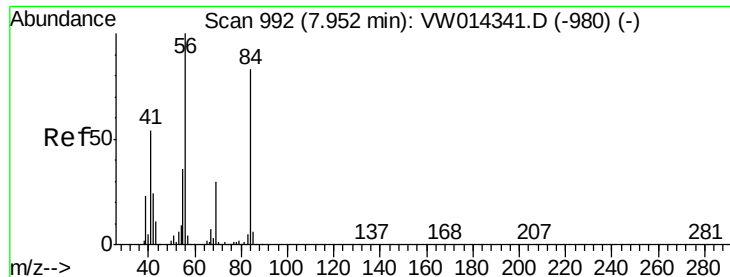
Tgt Ion: 83 Resp: 709901
Ion Ratio Lower Upper
83 100
85 65.4 46.1 85.7



#27
1,2-Dichloroethane
Concen: 24.124 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VW014360.D
Acq: 13 Dec 2019 19:53

Tgt Ion: 62 Resp: 458762
Ion Ratio Lower Upper
62 100
98 10.1 9.3 13.9

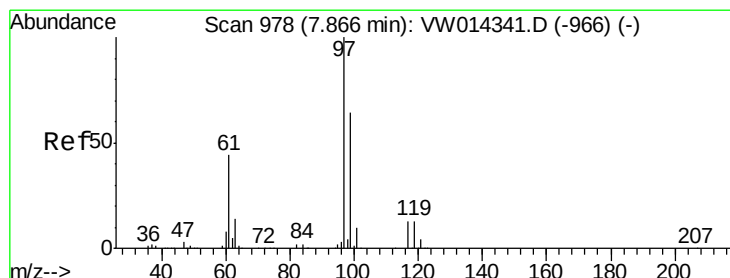
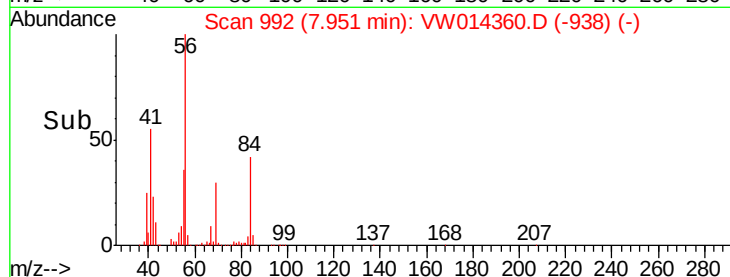
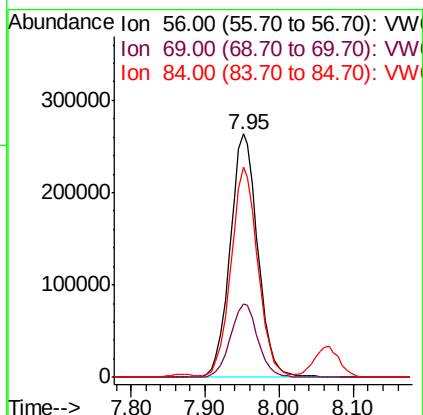
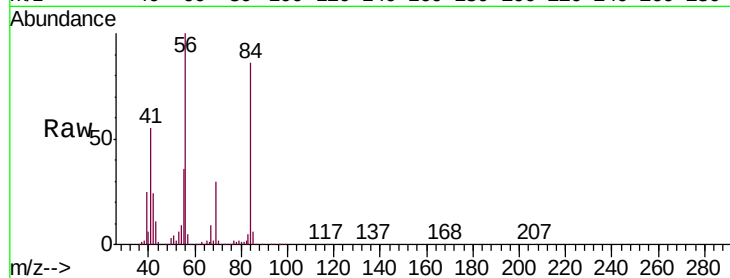




#30
Cyclohexane
Concen: 25.917 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW014360.D
Acq: 13 Dec 2019 19:53

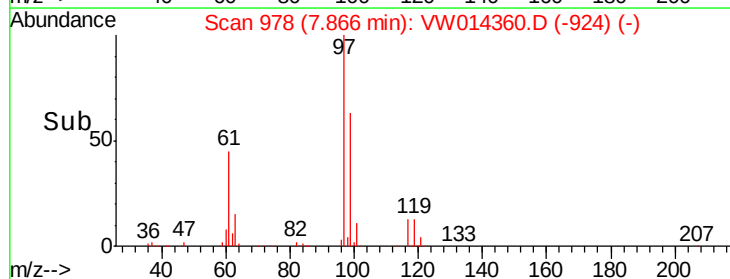
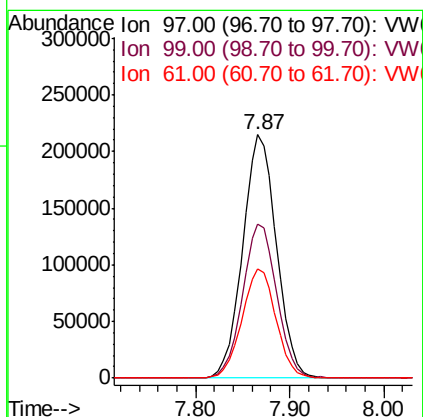
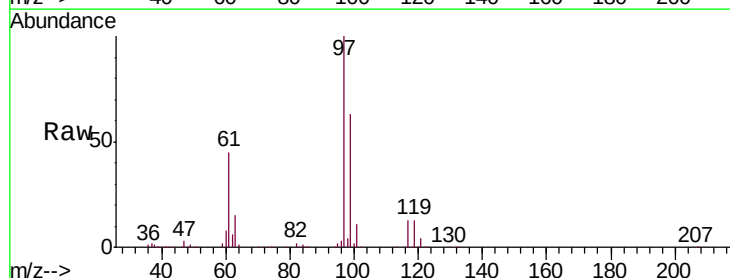
Instrument :
MSVOA_W
ClientSampleId :
VSTD02519

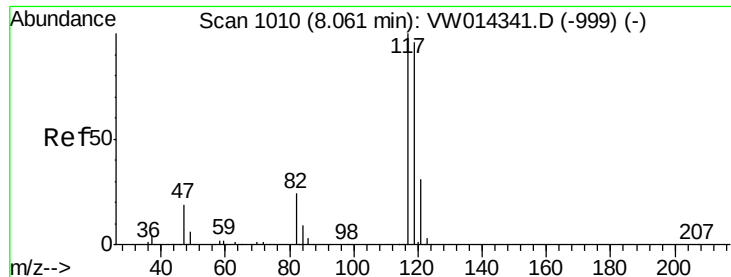
Tgt Ion: 56 Resp: 683905
Ion Ratio Lower Upper
56 100
69 29.9 24.6 37.0
84 83.8 70.2 105.2



#31
1,1,1-Trichloroethane
Concen: 25.377 ug/L
RT: 7.87 min Scan# 978
Delta R.T. -0.00 min
Lab File: VW014360.D
Acq: 13 Dec 2019 19:53

Tgt Ion: 97 Resp: 538807
Ion Ratio Lower Upper
97 100
99 64.0 51.1 76.7
61 45.2 32.8 49.2





#32

Carbon tetrachloride

Concen: 24.939 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

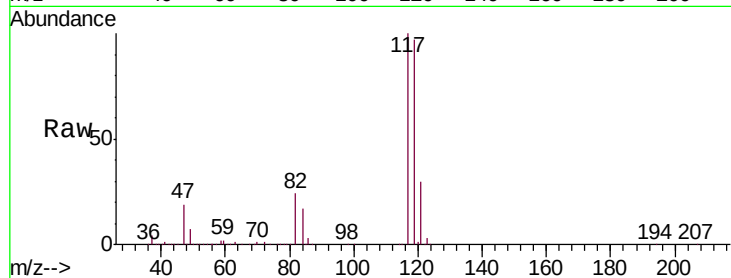
VSTD02519

Tgt Ion:117 Resp: 502407

Ion Ratio Lower Upper

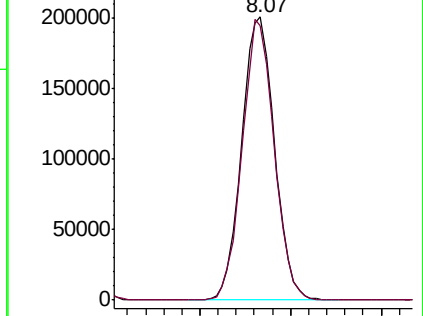
117 100

119 96.5 76.7 115.1

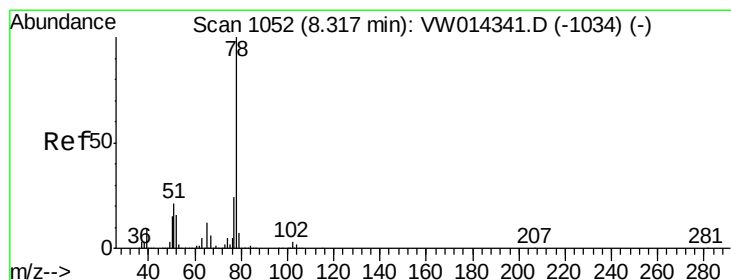
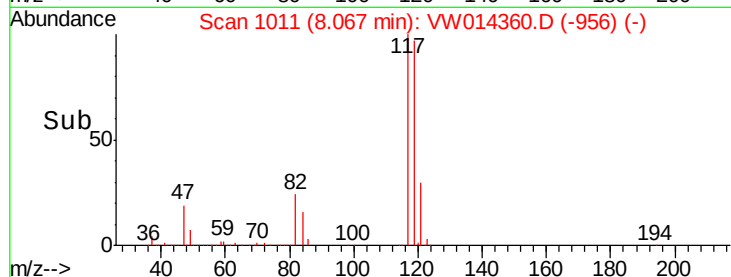


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



Time-->



#34

Benzene

Concen: 24.630 ug/L

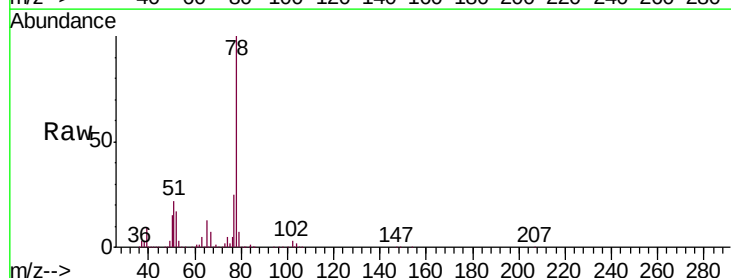
RT: 8.32 min Scan# 1052

Delta R.T. -0.00 min

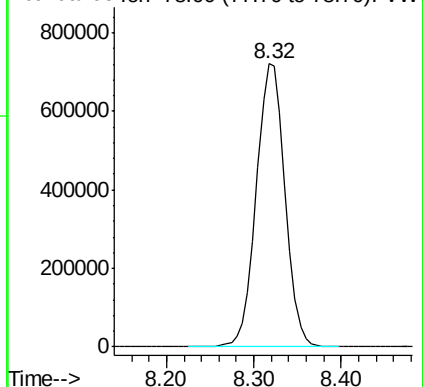
Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

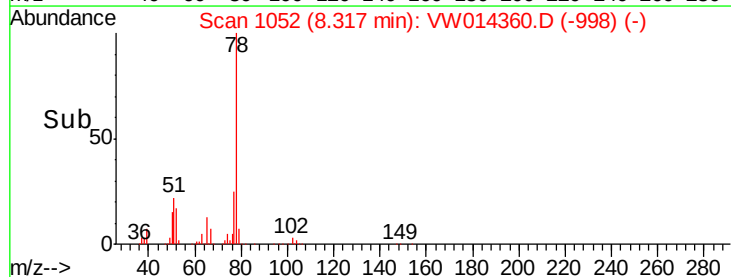
Tgt Ion: 78 Resp: 1648707

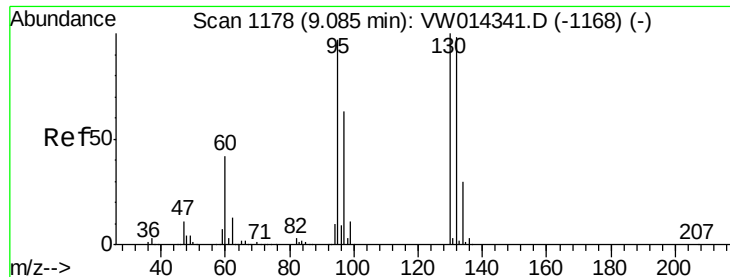


Abundance Ion 78.00 (77.70 to 78.70): VW



Time-->





#35

Trichloroethene

Concen: 23.997 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02519

Tgt Ion: 95 Resp: 410998

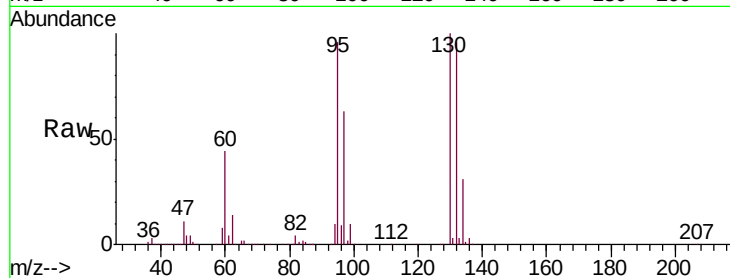
Ion Ratio Lower Upper

95 100

97 64.4 45.1 83.9

132 98.7 73.7 136.9

130 103.6 76.6 142.2

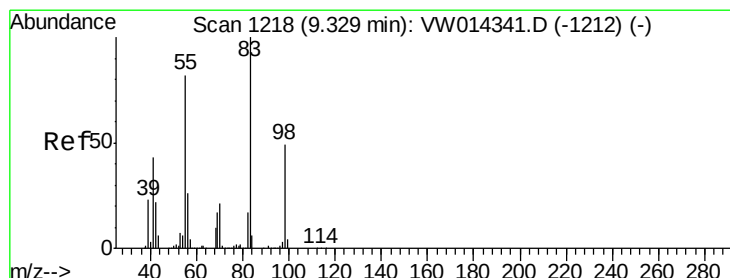
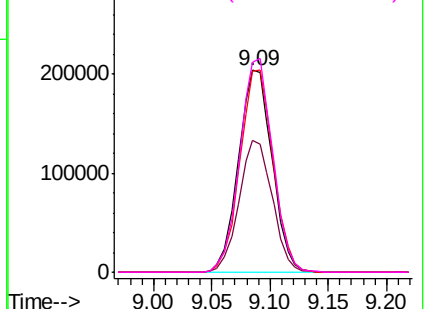
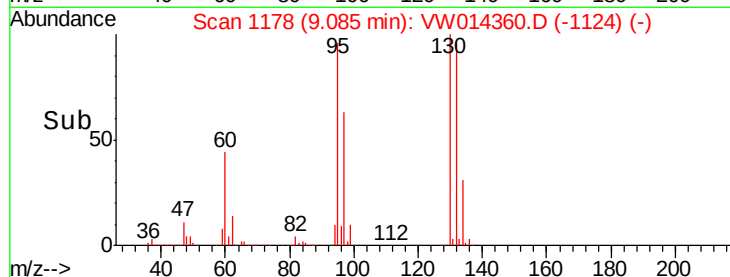


Abundance Ion 95.00 (94.70 to 95.70): VW

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: 25.115 ug/L

RT: 9.33 min Scan# 1218

Delta R.T. -0.00 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

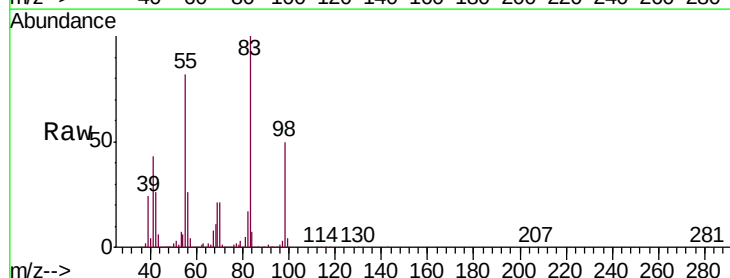
Tgt Ion: 83 Resp: 722839

Ion Ratio Lower Upper

83 100

55 80.6 59.8 89.8

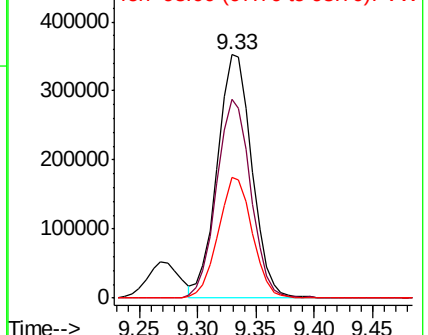
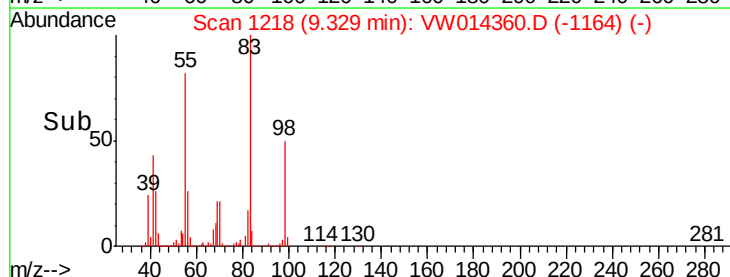
98 49.4 39.5 59.3

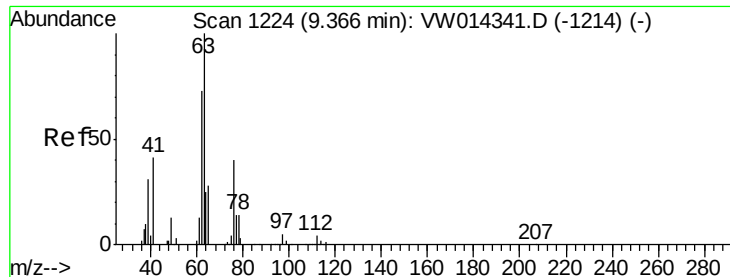


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 24.334 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

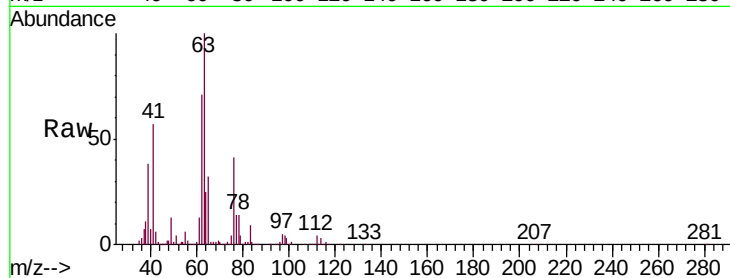
VSTD02519

Tgt Ion: 63 Resp: 418486

Ion Ratio Lower Upper

63 100

112 4.6 3.9 5.9



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V

250000

200000

150000

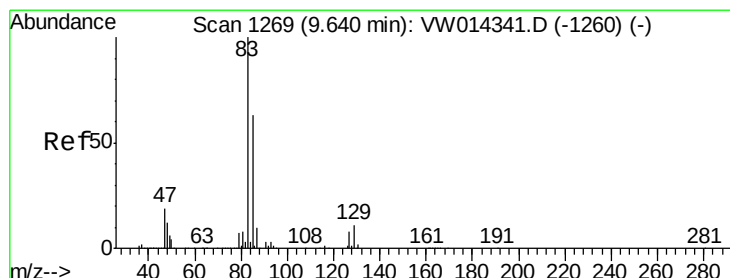
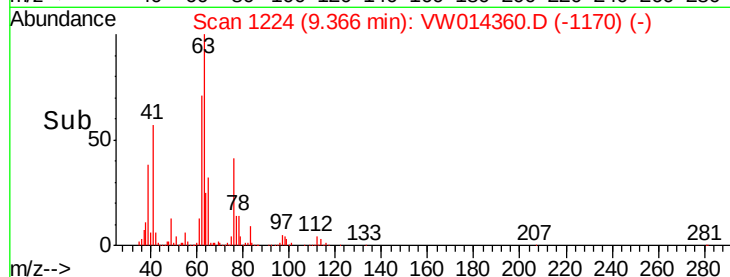
100000

50000

0

9.25 9.30 9.35 9.40 9.45

Time-->



#41

Bromodichloromethane

Concen: 24.208 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

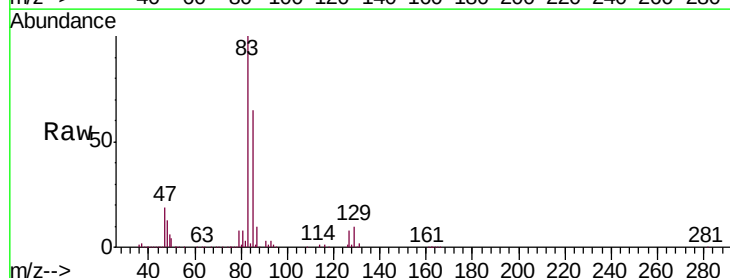
Tgt Ion: 83 Resp: 505941

Ion Ratio Lower Upper

83 100

85 65.3 45.1 83.7

127 8.4 7.4 11.0



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

300000

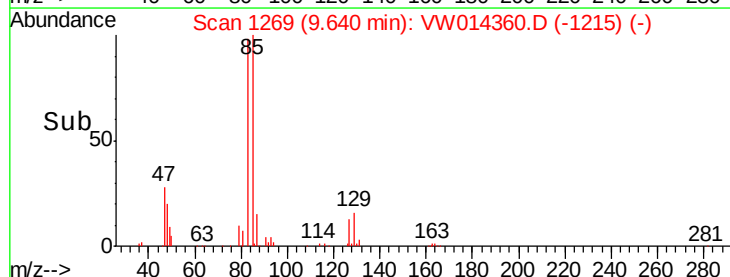
200000

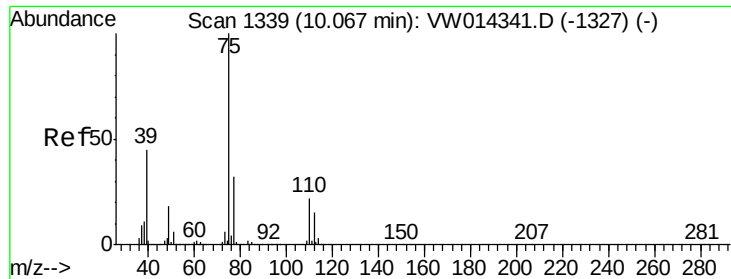
100000

0

9.55 9.60 9.65 9.70

Time-->





#42

cis-1,3-Dichloropropene

Concen: 24.179 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.01 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

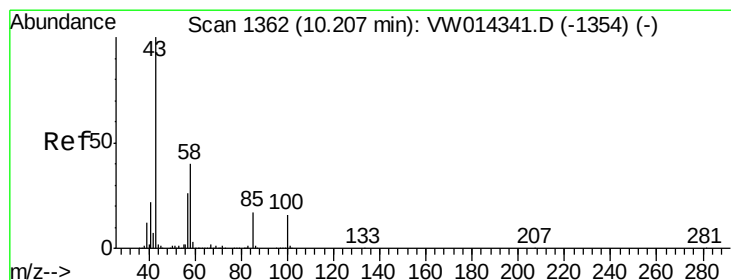
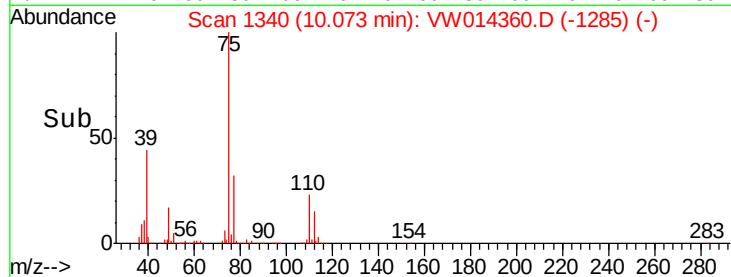
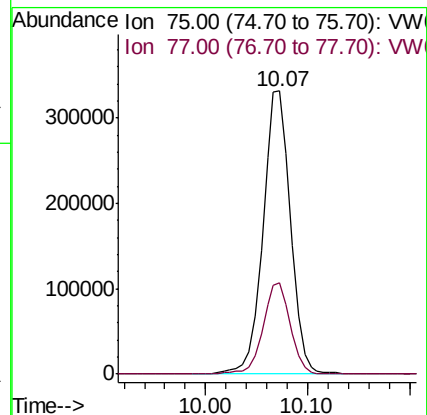
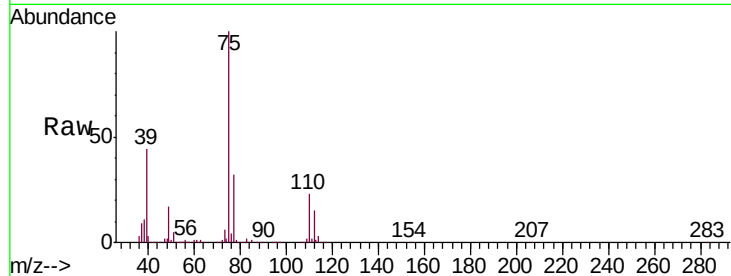
VSTD02519

Tgt Ion: 75 Resp: 622705

Ion Ratio Lower Upper

75 100

77 32.2 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 48.286 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

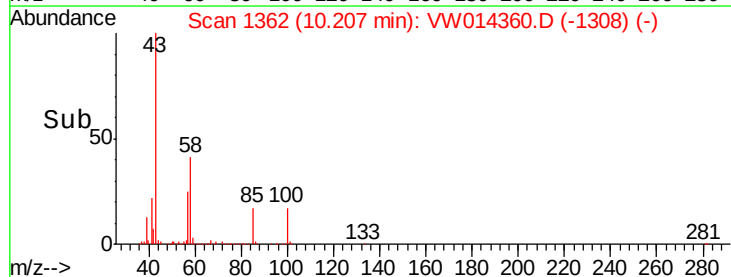
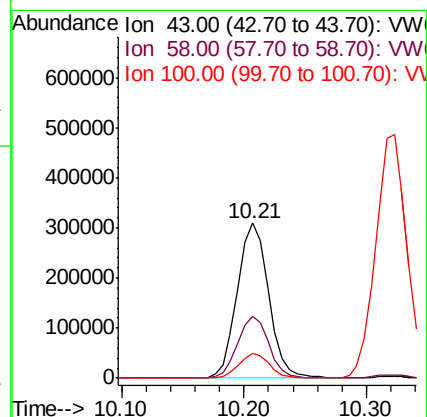
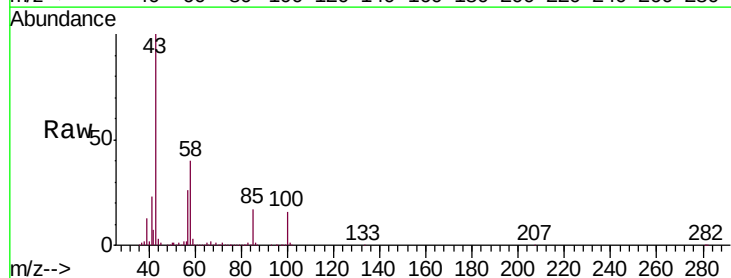
Tgt Ion: 43 Resp: 547575

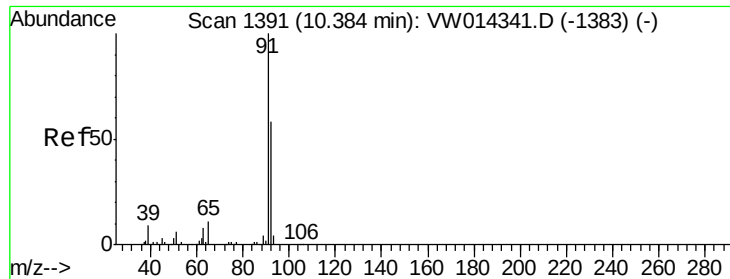
Ion Ratio Lower Upper

43 100

58 39.8 32.6 49.0

100 15.3 13.8 20.8





#44

Toluene

Concen: 24.818 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

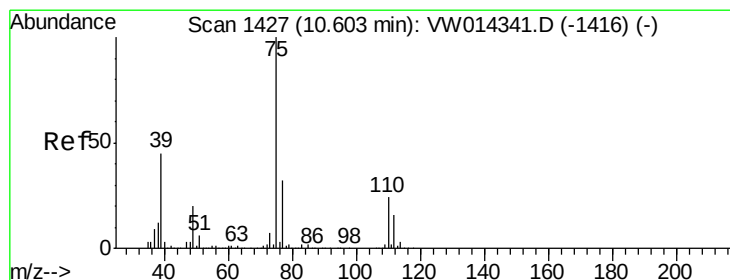
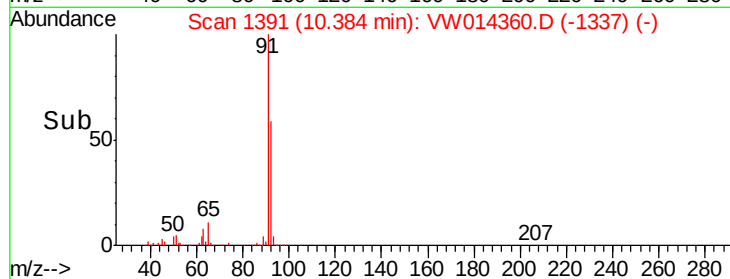
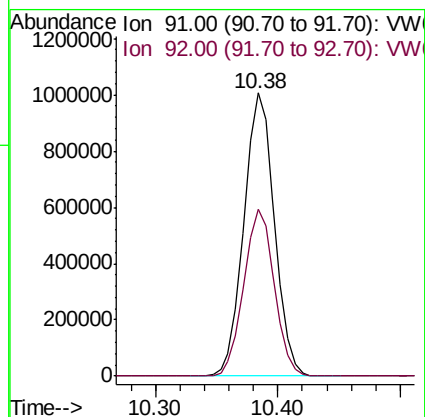
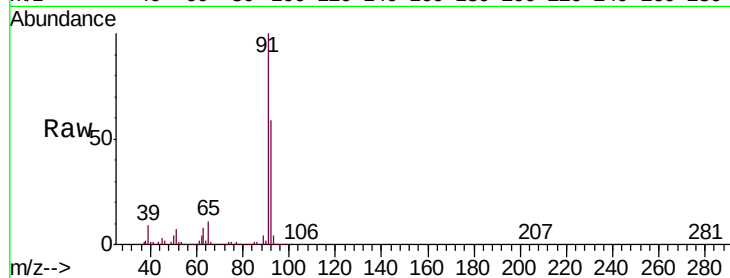
VSTD02519

Tgt Ion: 91 Resp: 1741716

Ion Ratio Lower Upper

91 100

92 59.2 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 23.656 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW014360.D

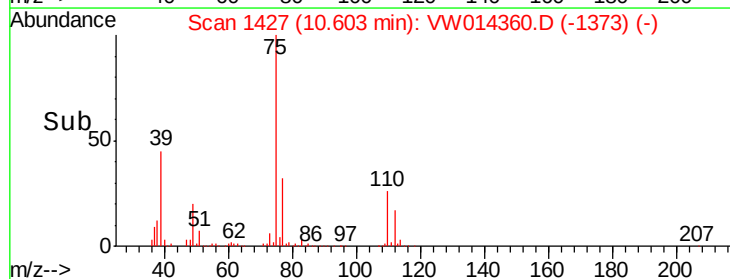
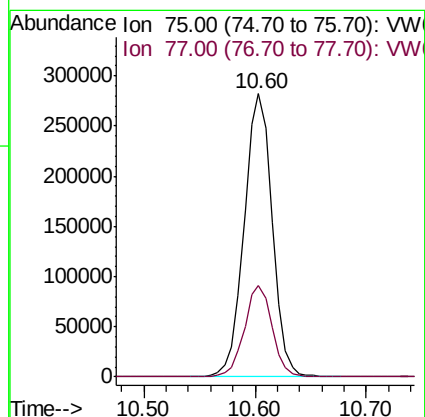
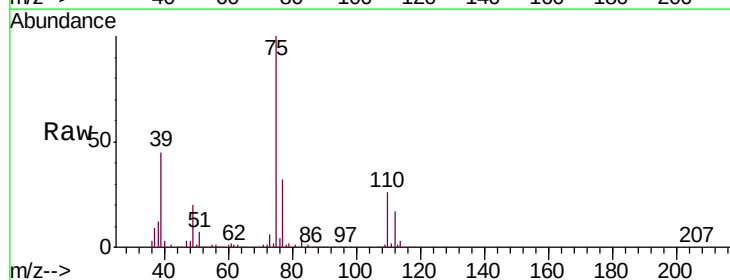
Acq: 13 Dec 2019 19:53

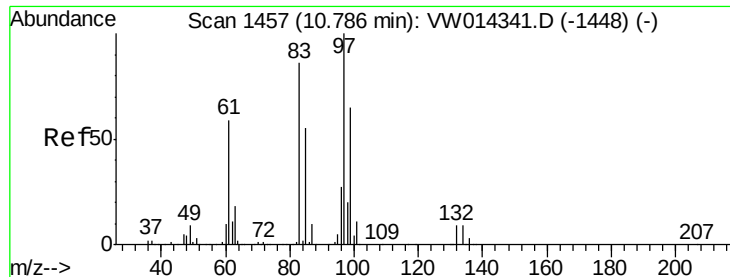
Tgt Ion: 75 Resp: 493166

Ion Ratio Lower Upper

75 100

77 32.1 21.8 40.6





#46

1,1,2-Trichloroethane

Concen: 22.840 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02519

Tgt Ion: 97 Resp: 294332

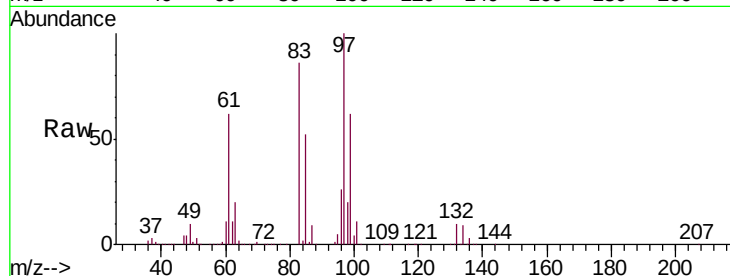
Ion Ratio Lower Upper

97 100

83 86.4 58.9 109.5

85 51.8 38.1 70.9

99 62.3 46.5 86.3



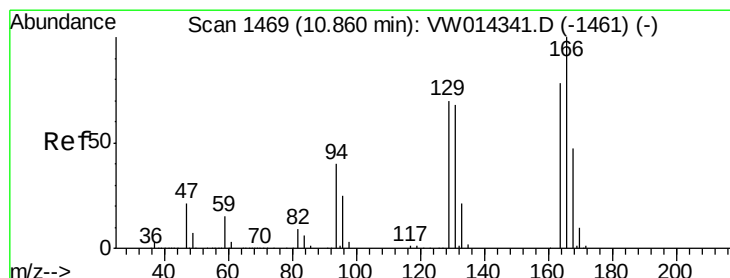
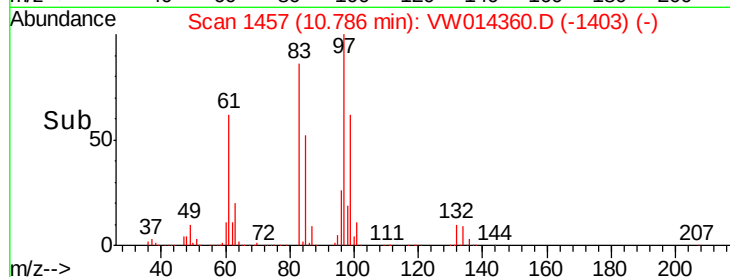
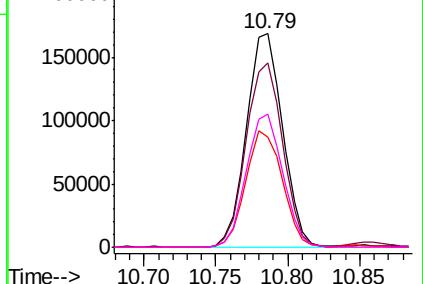
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 23.748 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

Tgt Ion: 164 Resp: 339009

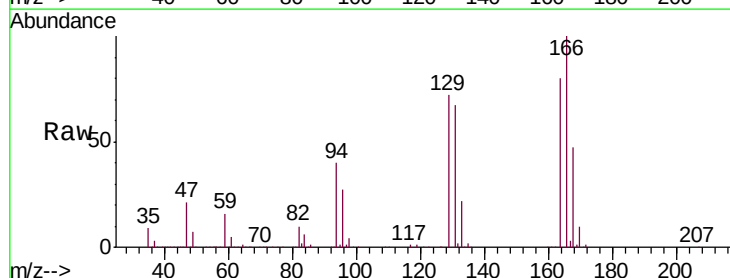
Ion Ratio Lower Upper

164 100

129 89.5 60.6 112.6

131 83.9 59.1 109.7

166 124.9 90.8 168.6



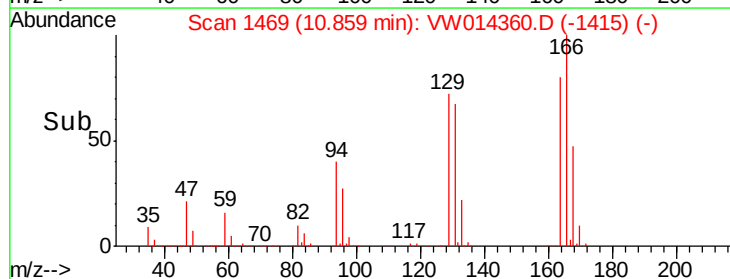
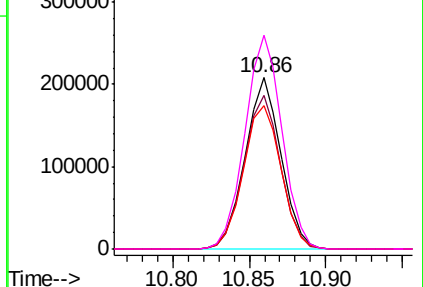
Abundance

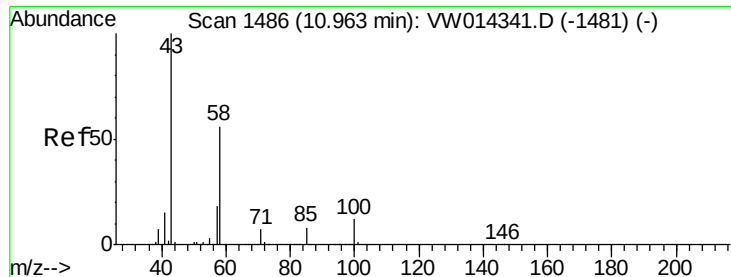
Ion 164.00 (163.70 to 164.70): V

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: 46.136 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.01 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02519

Tgt Ion: 43 Resp: 372480

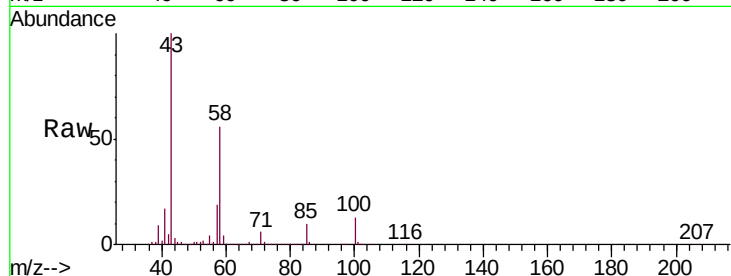
Ion Ratio Lower Upper

43 100

58 56.5 44.4 66.6

57 19.5 16.5 24.7

100 12.5 11.1 16.7

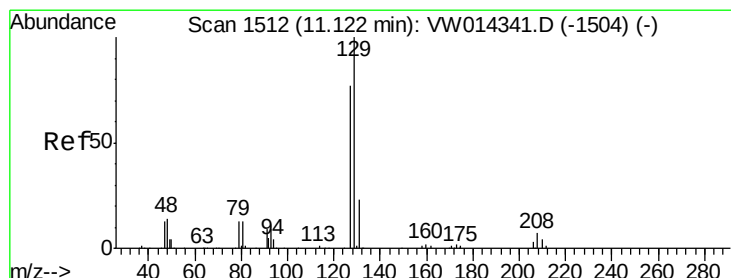
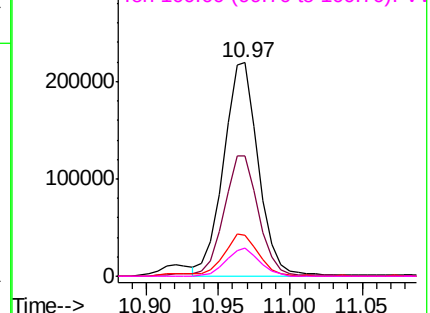
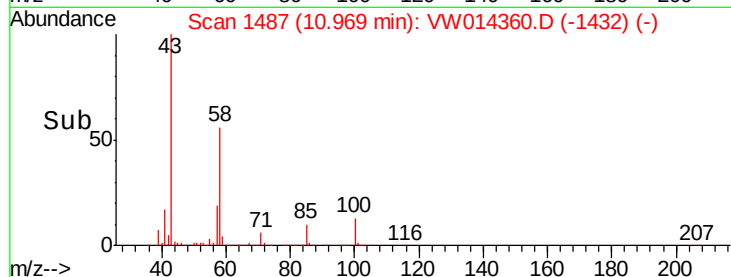


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 23.202 ug/L

RT: 11.12 min Scan# 1512

Delta R.T. -0.00 min

Lab File: VW014360.D

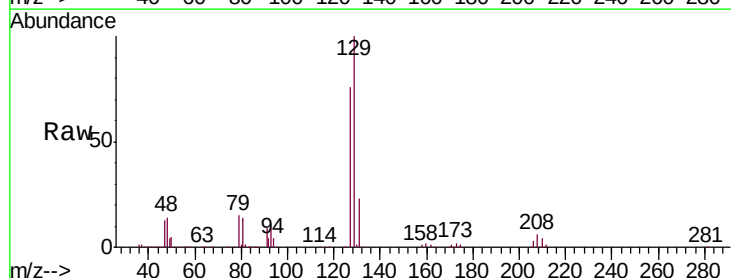
Acq: 13 Dec 2019 19:53

Tgt Ion: 129 Resp: 335572

Ion Ratio Lower Upper

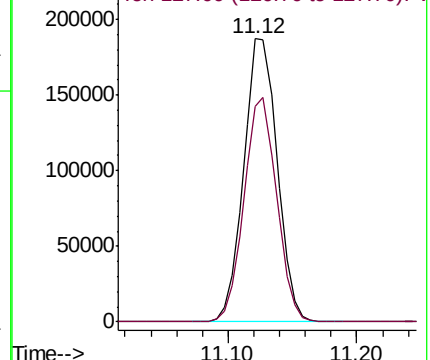
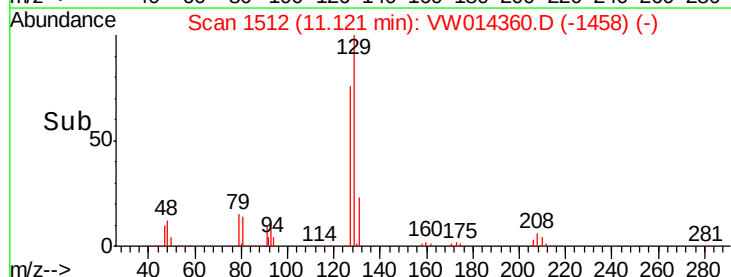
129 100

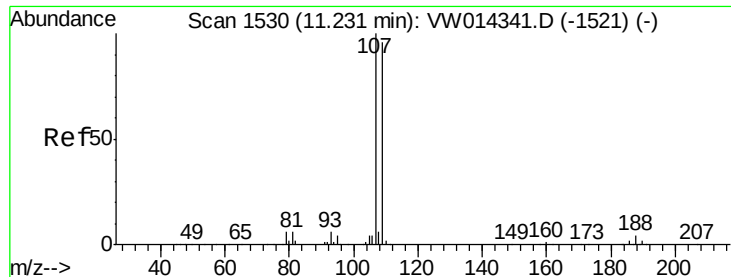
127 76.3 54.9 102.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 22.571 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02519

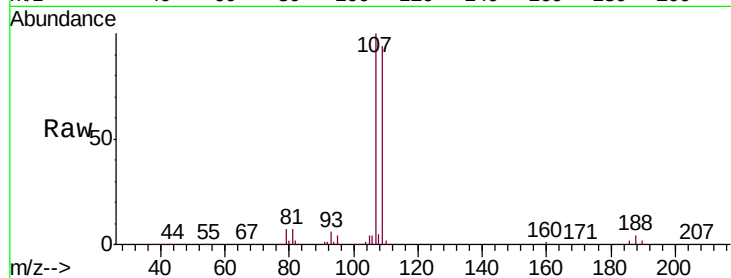
Tgt Ion:107 Resp: 275508

Ion Ratio Lower Upper

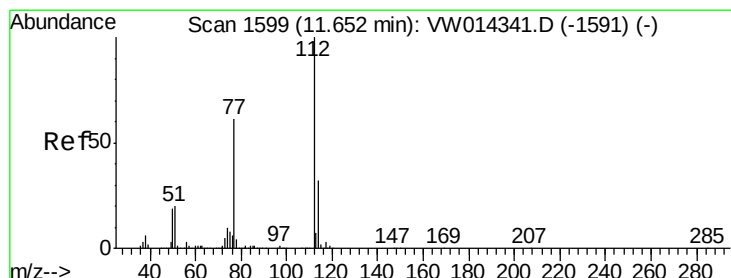
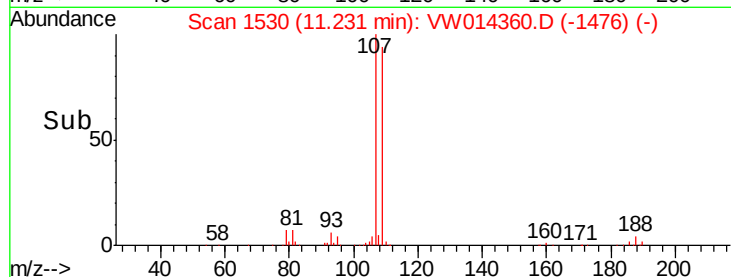
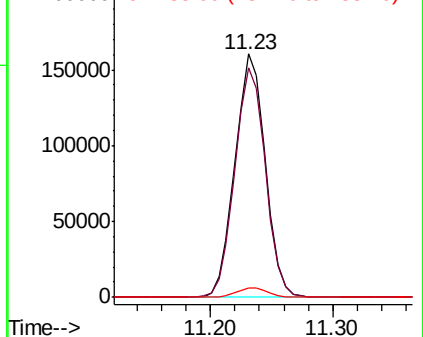
107 100

109 94.5 64.6 120.0

188 3.7 3.9 5.9#



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



#52

Chlorobenzene

Concen: 23.696 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

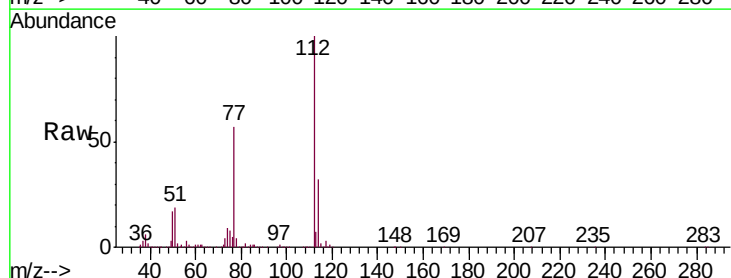
Tgt Ion:112 Resp: 1074779

Ion Ratio Lower Upper

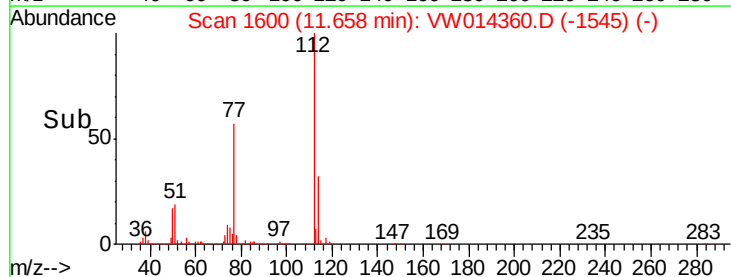
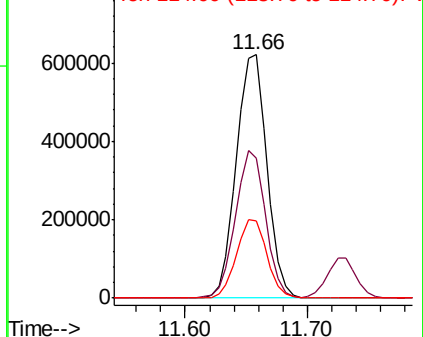
112 100

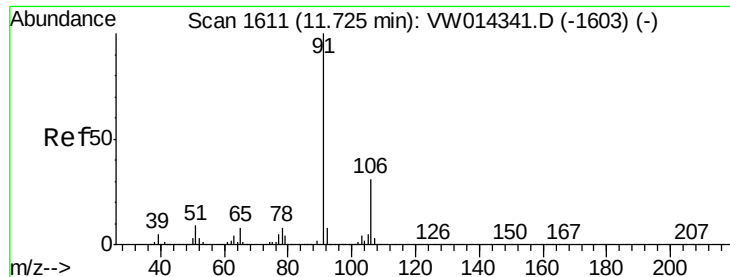
77 57.4 42.2 63.4

114 31.8 22.5 41.9



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





#53

Ethylbenzene

Concen: 25.106 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.01 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

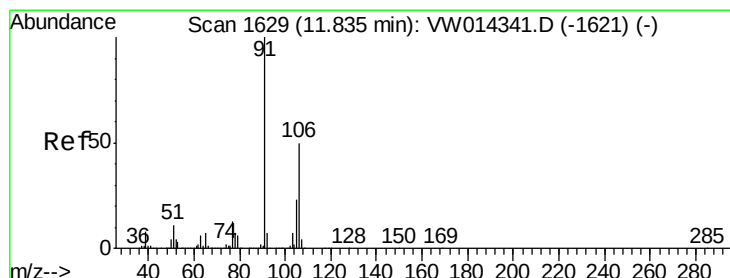
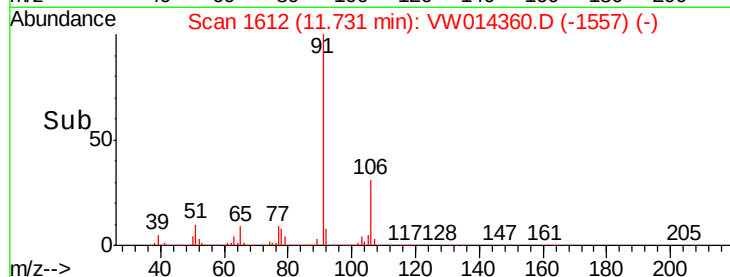
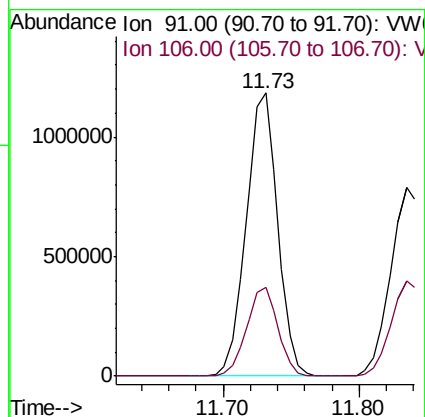
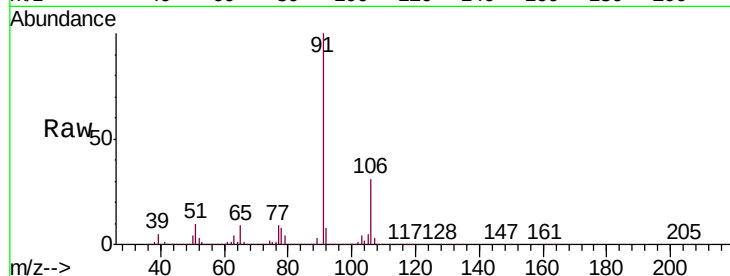
VSTD02519

Tgt Ion: 91 Resp: 1911817

Ion Ratio Lower Upper

91 100

106 31.2 22.3 41.5



#54

m,p-Xylene

Concen: 24.848 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW014360.D

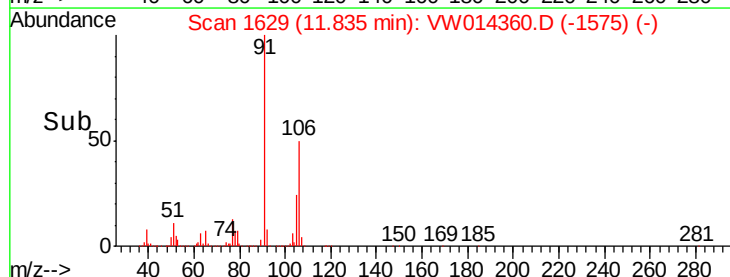
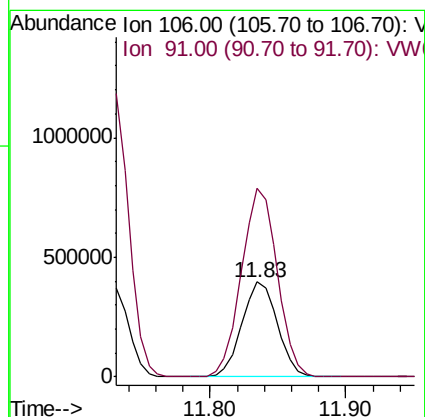
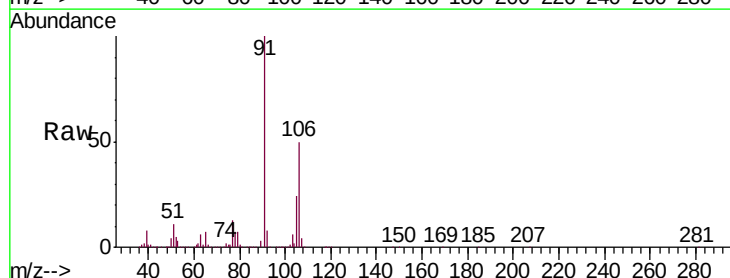
Acq: 13 Dec 2019 19:53

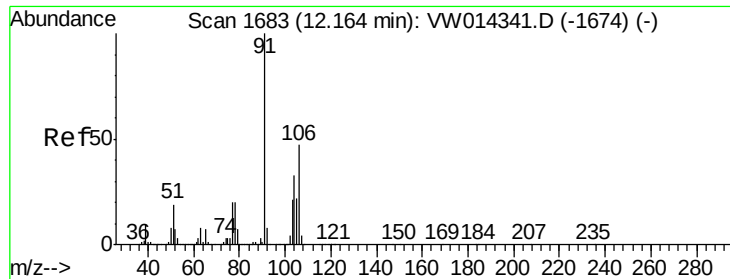
Tgt Ion: 106 Resp: 727879

Ion Ratio Lower Upper

106 100

91 199.2 138.7 257.5

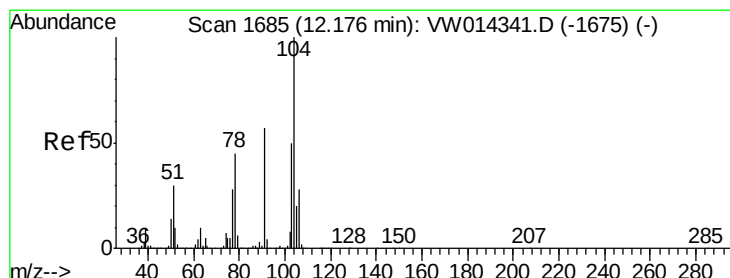
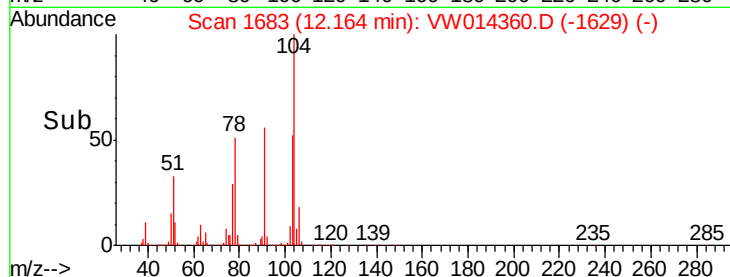
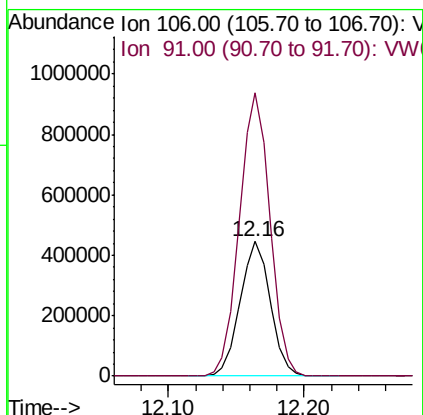
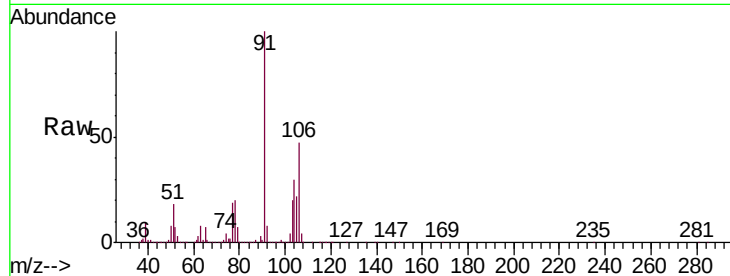




#55
o-xylene
Concen: 24.942 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW014360.D
Acq: 13 Dec 2019 19:53

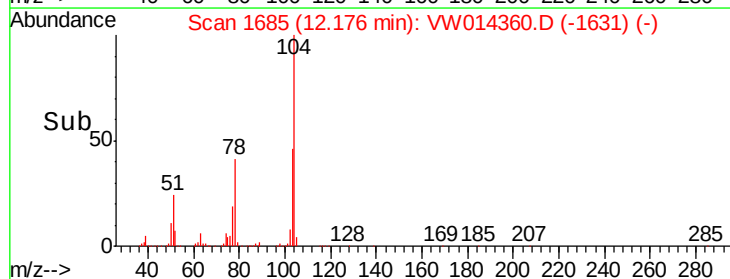
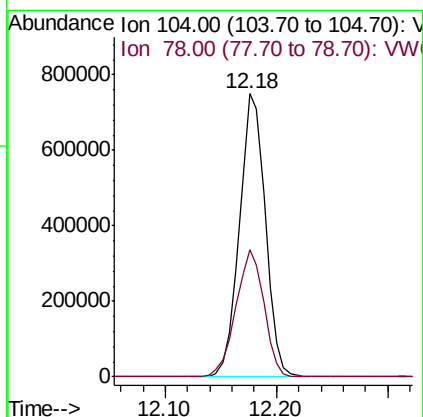
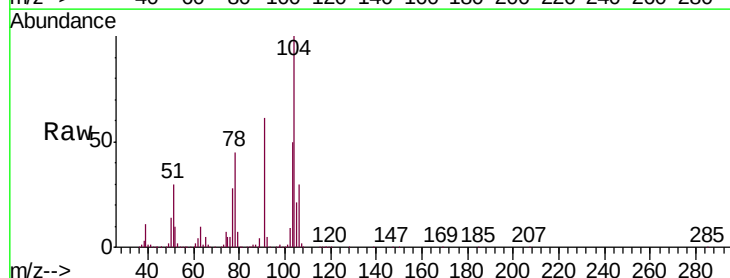
Instrument :
MSVOA_W
ClientSampled :
VSTD02519

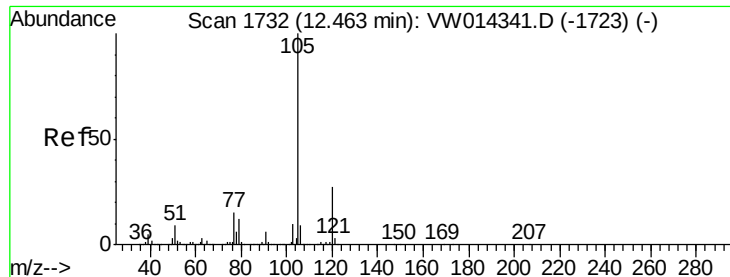
Tgt Ion:106 Resp: 692992
Ion Ratio Lower Upper
106 100
91 210.6 148.3 275.5



#56
Styrene
Concen: 25.384 ug/L
RT: 12.18 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VW014360.D
Acq: 13 Dec 2019 19:53

Tgt Ion:104 Resp: 1206565
Ion Ratio Lower Upper
104 100
78 44.8 30.6 56.8





#57

Isopropylbenzene

Concen: 25.639 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02519

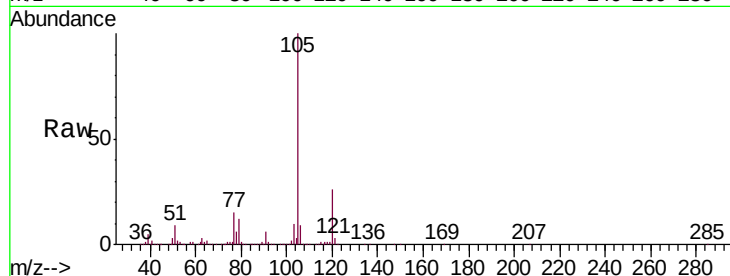
Tgt Ion:105 Resp: 1849388

Ion Ratio Lower Upper

105 100

120 26.7 21.6 32.4

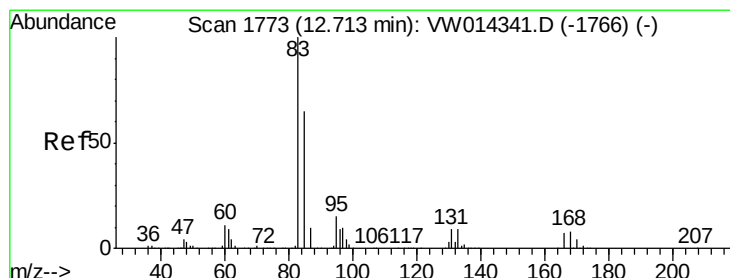
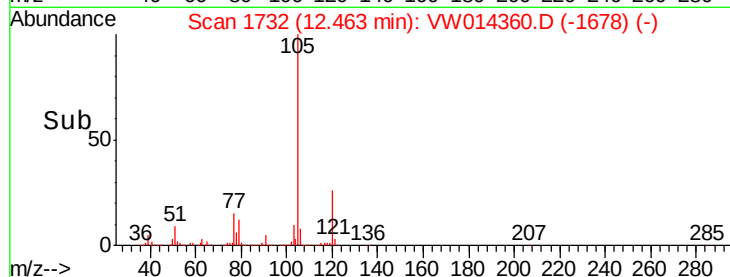
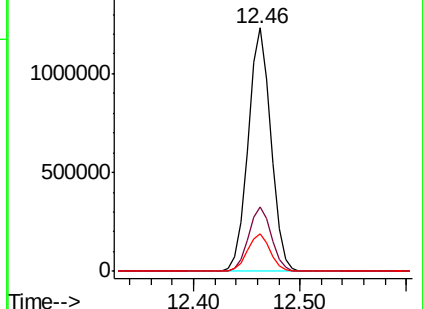
77 15.3 11.6 17.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 22.789 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

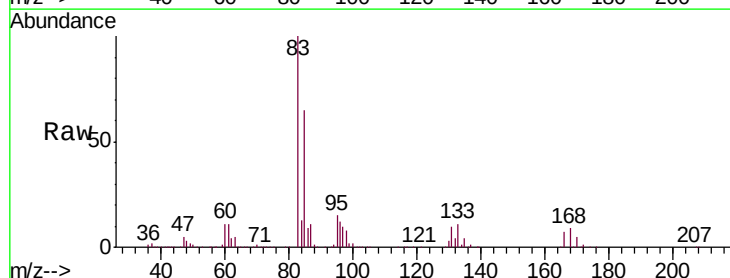
Tgt Ion: 83 Resp: 364504

Ion Ratio Lower Upper

83 100

85 64.5 43.7 81.1

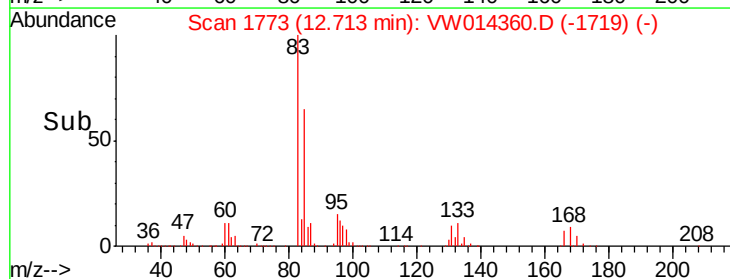
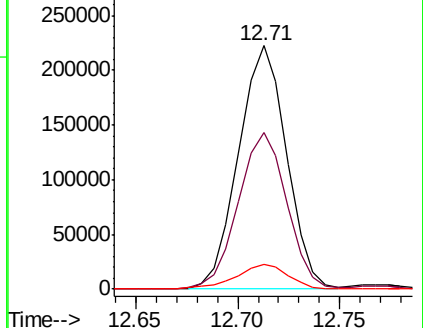
131 10.1 8.2 12.2

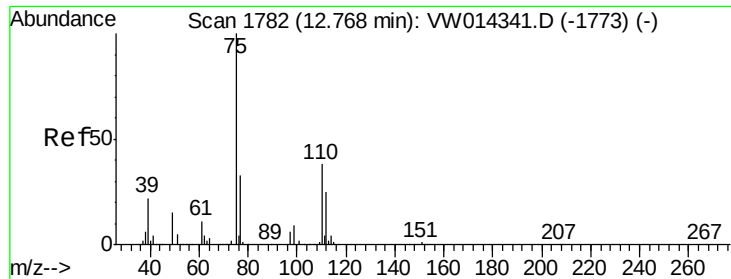


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 22.560 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

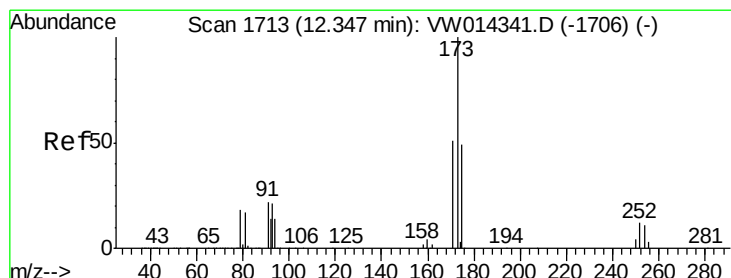
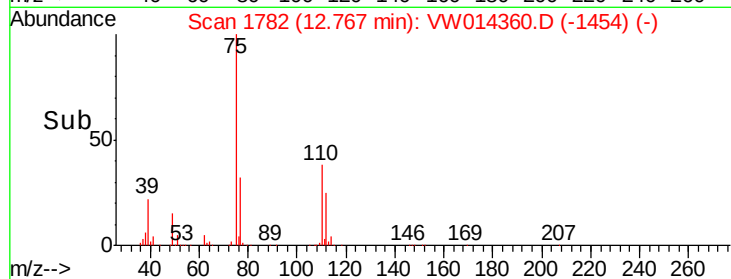
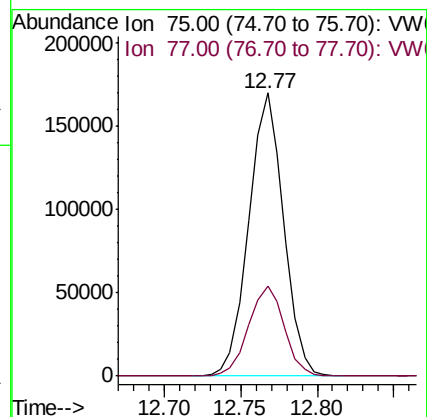
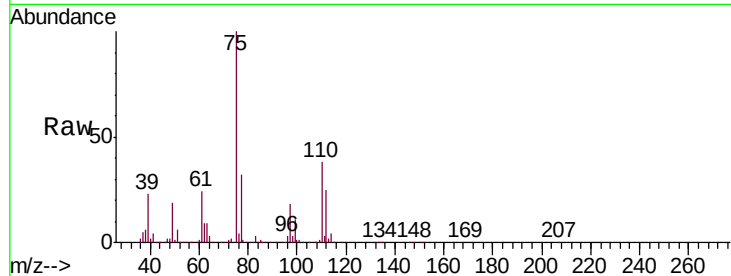
VSTD02519

Tgt Ion: 75 Resp: 268129

Ion Ratio Lower Upper

75 100

77 32.6 25.9 38.9



#62

Bromoform

Concen: 21.788 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

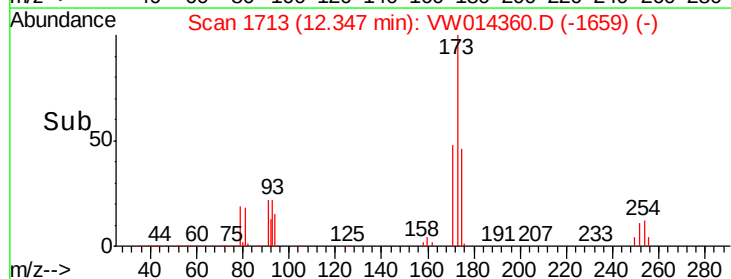
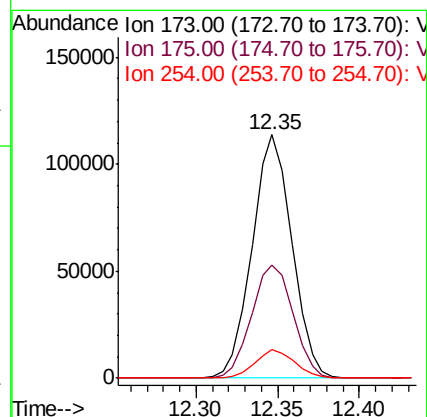
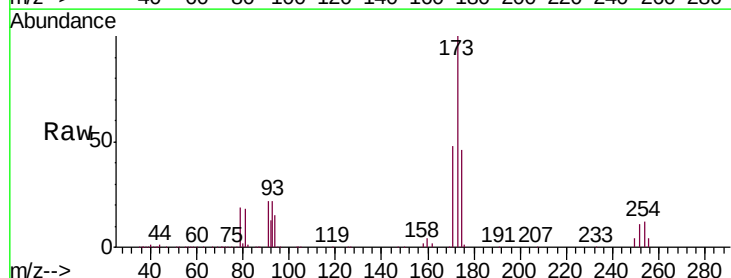
Tgt Ion: 173 Resp: 193466

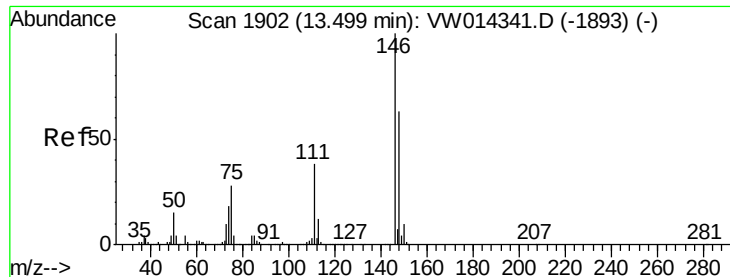
Ion Ratio Lower Upper

173 100

175 48.6 38.8 58.2

254 11.5 9.4 14.0





#63

1,3-Dichlorobenzene

Concen: 23.887 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02519

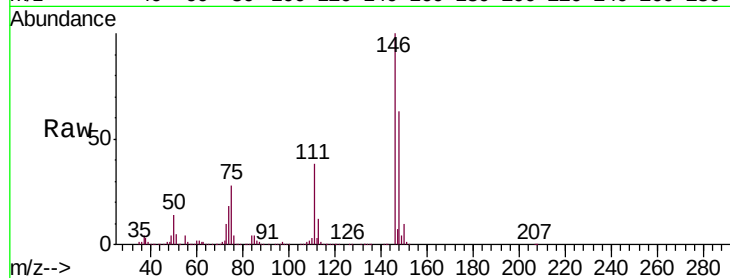
Tgt Ion:146 Resp: 839986

Ion Ratio Lower Upper

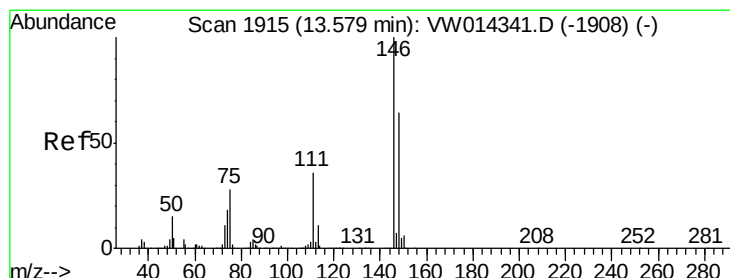
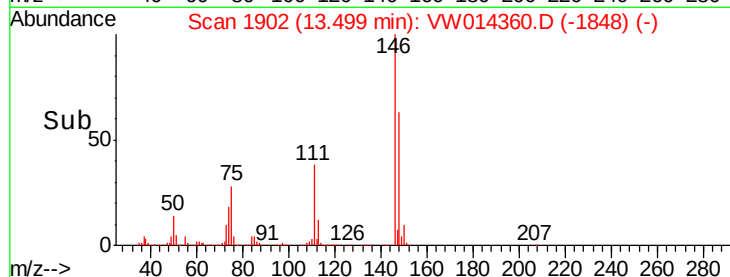
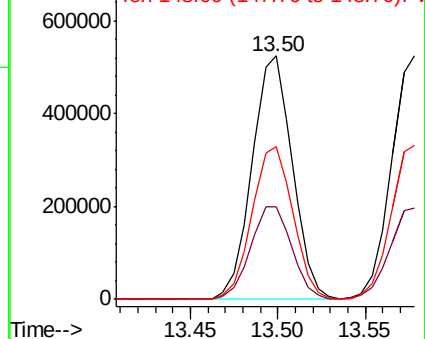
146 100

111 37.9 26.0 48.2

148 62.7 44.7 82.9



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



#64

1,4-Dichlorobenzene

Concen: 23.092 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

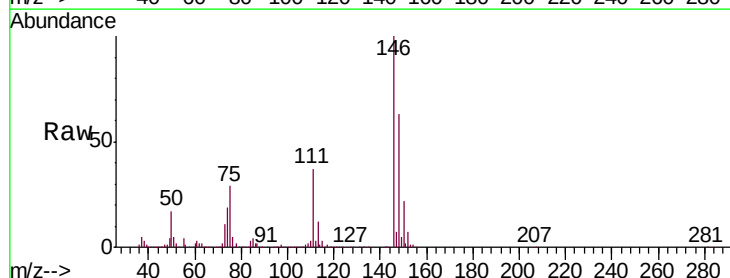
Tgt Ion:146 Resp: 825018

Ion Ratio Lower Upper

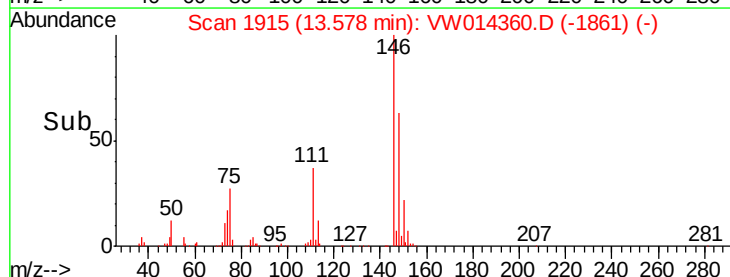
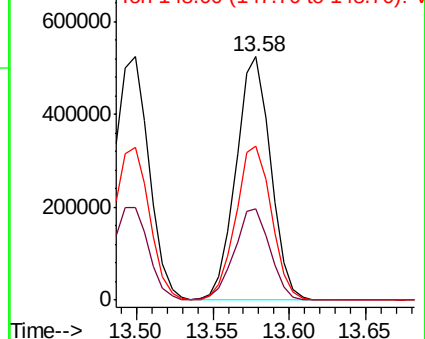
146 100

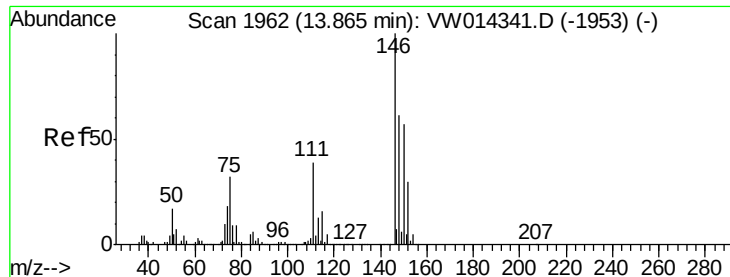
111 37.3 24.9 46.3

148 63.3 43.9 81.5



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

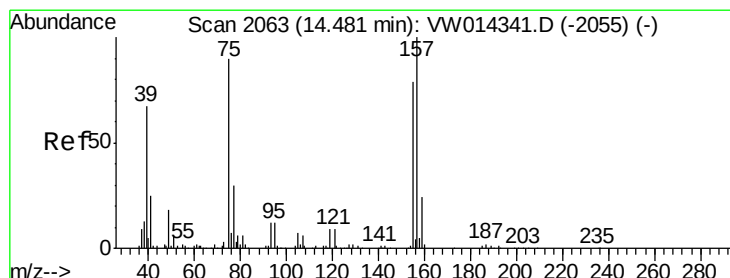
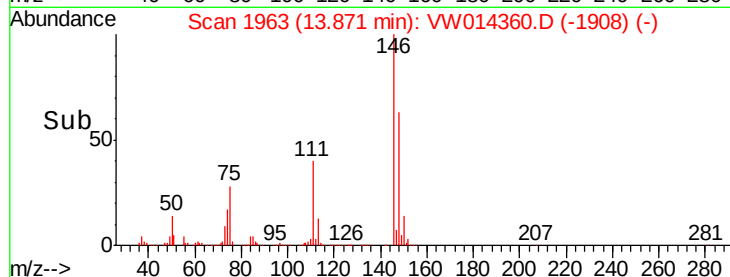
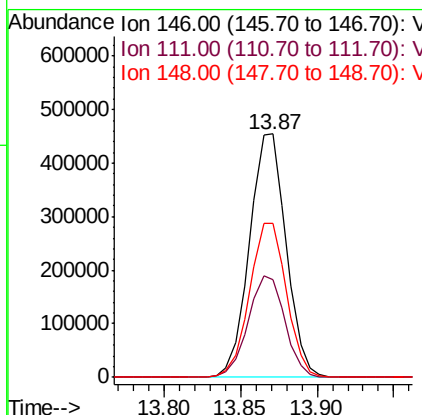
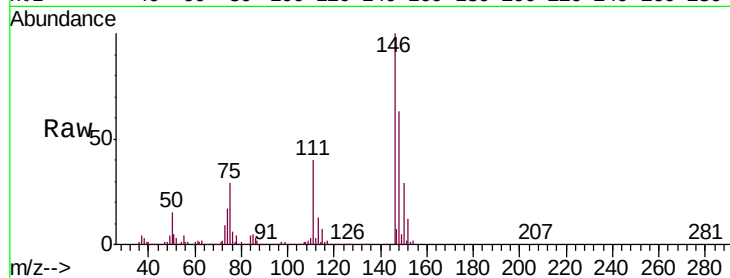




#65
 1,2-Dichlorobenzene
 Concen: 23.173 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.01 min
 Lab File: VW014360.D
 Acq: 13 Dec 2019 19:53

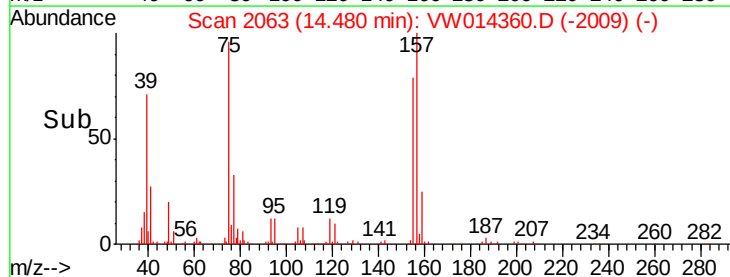
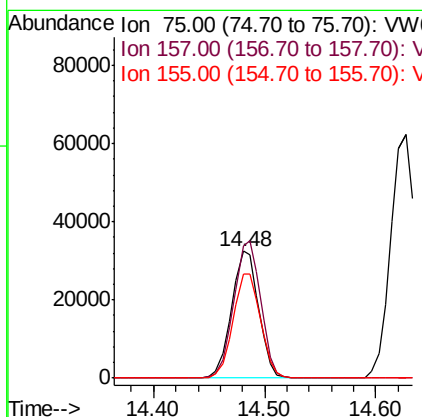
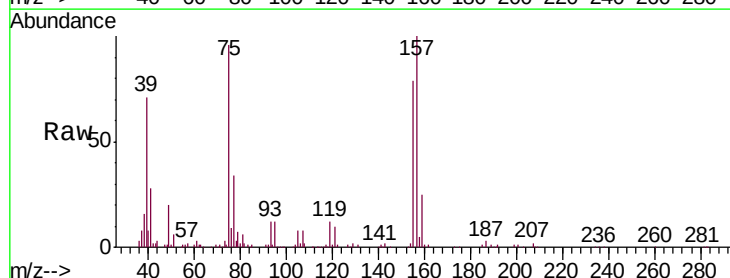
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02519

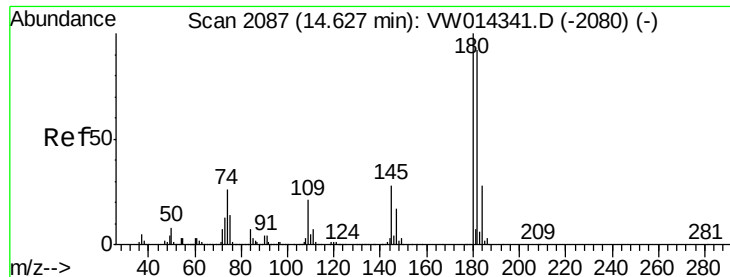
Tgt Ion: 146 Resp: 757805
 Ion Ratio Lower Upper
 146 100
 111 39.9 30.5 45.7
 148 63.5 49.4 74.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 21.601 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.00 min
 Lab File: VW014360.D
 Acq: 13 Dec 2019 19:53

Tgt Ion: 75 Resp: 54492
 Ion Ratio Lower Upper
 75 100
 157 103.8 96.9 145.3
 155 82.0 82.9 124.3#

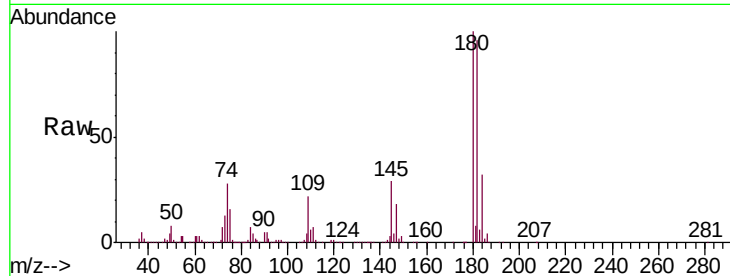




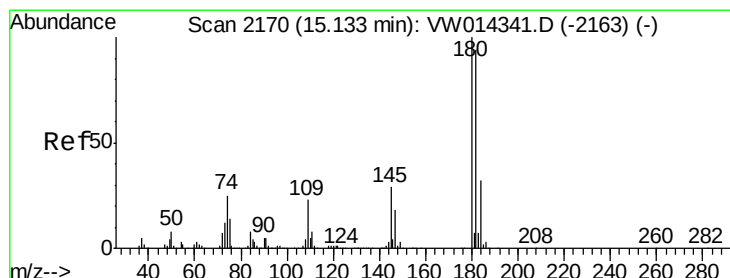
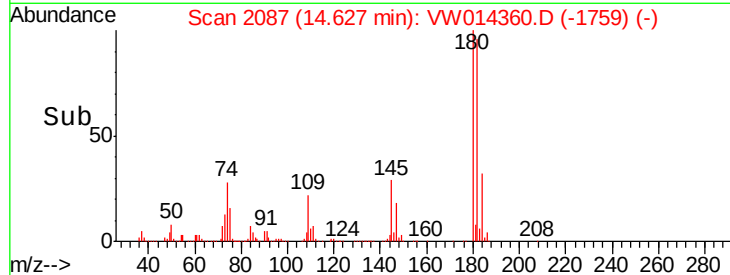
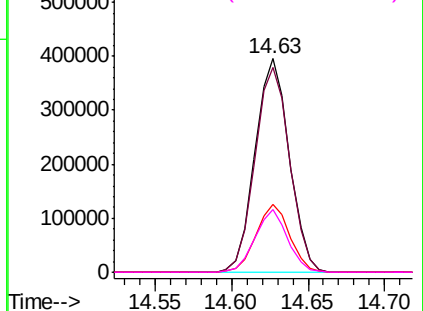
#67
 1,3,5-Trichlorobenzene
 Concen: 24.425 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW014360.D
 Acq: 13 Dec 2019 19:53

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02519

Tgt Ion:180 Resp: 617971
 Ion Ratio Lower Upper
 180 100
 182 96.5 76.2 114.2
 184 31.1 24.3 36.5
 145 27.9 21.9 32.9

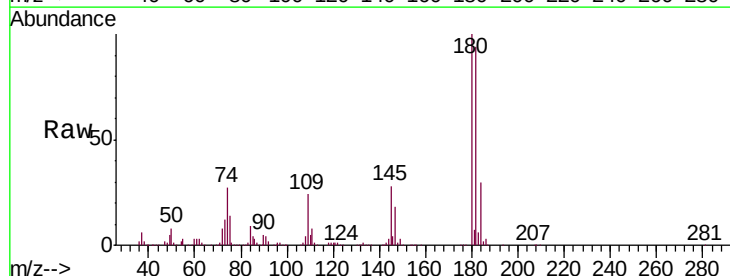


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

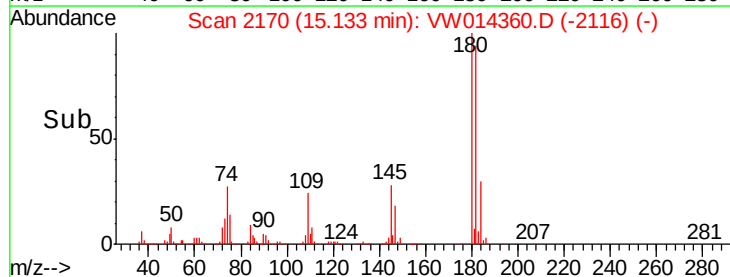
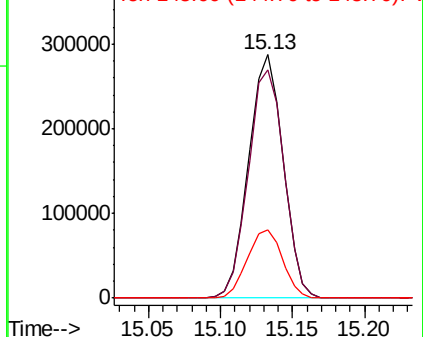


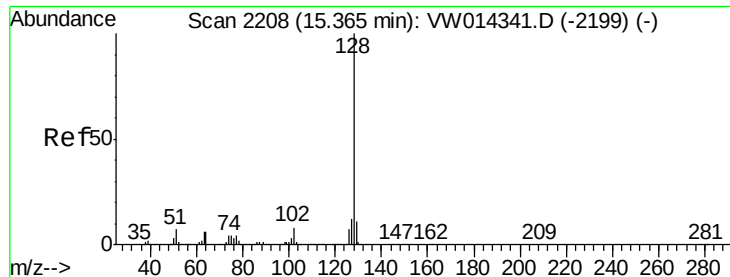
#68
 1,2,4-trichlorobenzene
 Concen: 24.177 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW014360.D
 Acq: 13 Dec 2019 19:53

Tgt Ion:180 Resp: 476850
 Ion Ratio Lower Upper
 180 100
 182 96.8 75.8 113.8
 145 28.8 22.4 33.6



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





#69

Naphthalene

Concen: 23.406 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

Instrument :

MSVOA_W

ClientSampleId :

VSTD02519

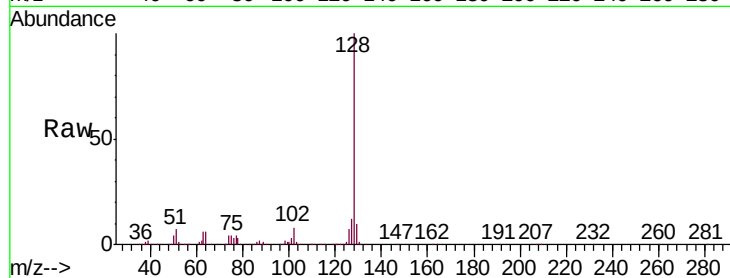
Tgt Ion:128 Resp: 868152

Ion Ratio Lower Upper

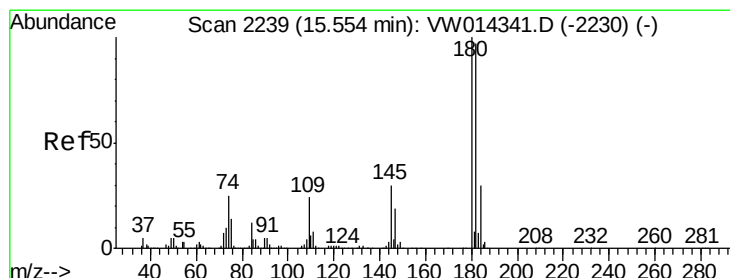
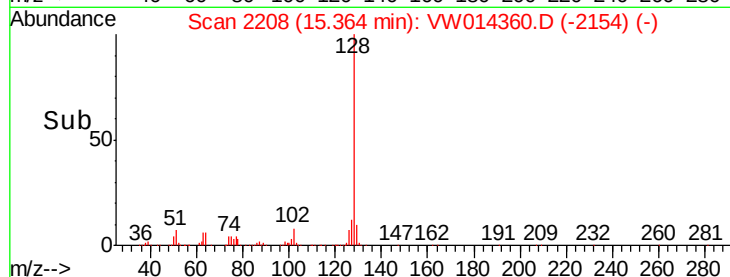
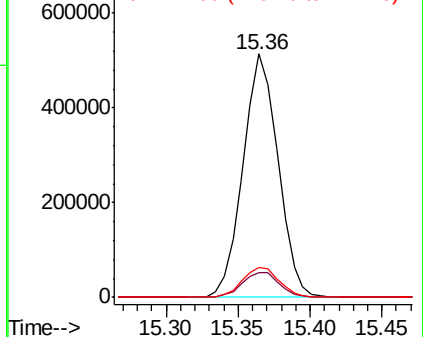
128 100

129 10.9 8.8 13.2

127 13.0 10.4 15.6



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: 23.638 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW014360.D

Acq: 13 Dec 2019 19:53

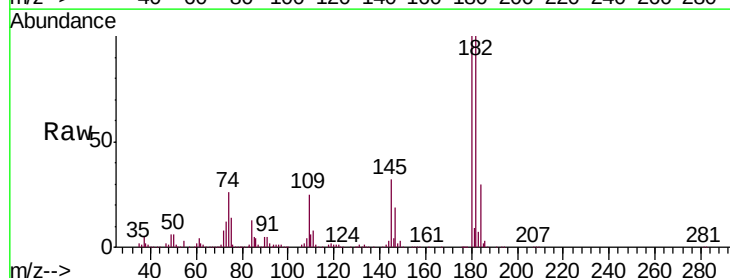
Tgt Ion:180 Resp: 437210

Ion Ratio Lower Upper

180 100

182 95.3 75.8 113.6

145 30.6 24.0 36.0



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

