

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW042219\
 Data File : VW010089.D
 Acq On : 22 Apr 2019 19:25
 Operator : SY/VA
 Sample : VSTDCCC025EC
 Misc : 5.00G/10ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

Quant Time: Apr 23 06:10:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041519S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Apr 23 06:06:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	851842	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	796262	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	386458	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	189138	23.50	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.00%
7) Chloroethane-d5	2.89	69	152935	18.76	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	75.04%
10) 1,1-Dichloroethene-d2	4.01	63	536635	24.04	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	96.16%
20) 2-Butanone-d5	7.07	46	191786	44.04	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	88.08%
24) Chloroform-d	7.65	84	519171	21.08	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	84.32%
26) 1,2-Dichloroethane-d4	8.31	65	301642	19.74	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	78.96%
29) Benzene-d6	8.27	84	1006409	23.00	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	92.00%
33) 1,2-Dichloropropane-d6	9.27	67	317676	22.79	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	91.16%
37) Toluene-d8	10.32	98	931344	23.33	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	93.32%
38) trans-1,3-Dichloropropene-	10.58	79	148167	22.42	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	89.68%
39) 2-Hexanone-d5	10.93	63	155488	50.35	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	100.70%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	275014	21.09	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	84.36%
61) 1,2-Dichlorobenzene-d4	13.86	152	334044	22.99	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	91.96%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	301211	25.203	ug/L 100
3) Chloromethane	2.21	50	238944	21.935	ug/L 100
5) Vinyl chloride	2.37	62	278490	27.177	ug/L 98
6) Bromomethane	2.78	94	161418	21.330	ug/L 98
8) Chloroethane	2.92	64	161361	21.934	ug/L 99
9) Trichlorofluoromethane	3.25	101	156276	18.524	ug/L 99
11) 1,1,2-Trichloro-1,2,2-trif	4.05	101	280409	25.528	ug/L 98
12) 1,1-Dichloroethene	4.04	96	280504	27.275	ug/L 87
13) Acetone	4.12	43	150151	38.776	ug/L 98
14) Carbon disulfide	4.38	76	785302	26.937	ug/L 97
15) Methyl Acetate	4.67	43	179355	22.948	ug/L 98
16) Methylene chloride	4.92	84	298411	19.347	ug/L 97
17) Methyl tert-butyl Ether	5.42	73	406364	26.999	ug/L # 89
18) trans-1,2-Dichloroethene	5.42	96	295862	25.420	ug/L 98
19) 1,1-Dichloroethane	6.21	63	577629	24.898	ug/L 99
21) 2-Butanone	7.17	43	243414	48.005	ug/L 100
22) cis-1,2-Dichloroethene	7.17	96	330717	26.183	ug/L 98

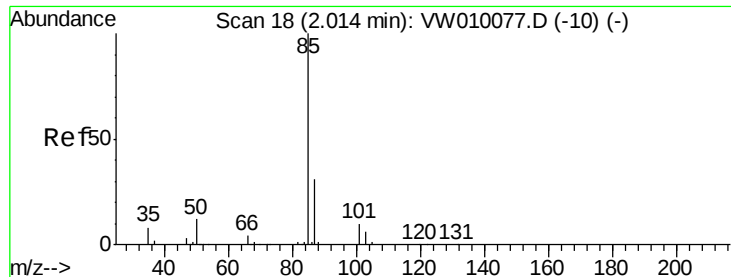
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW042219\
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 Quant Title : VOC Analysis
 QLast Update : Tue Apr 23 06:06:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	142158	24.167	ug/L	93
25) Chloroform	7.67	83	569268	23.980	ug/L	100
27) 1,2-Dichloroethane	8.40	62	414334	22.670	ug/L	100
30) Cyclohexane	7.95	56	544915	30.280	ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	446717	26.863	ug/L	98
32) Carbon tetrachloride	8.06	117	432331	26.479	ug/L	100
34) Benzene	8.32	78	1234375	26.315	ug/L	100
35) Trichloroethene	9.09	95	324121	26.575	ug/L	99
36) Methylcyclohexane	9.34	83	567211	28.946	ug/L	97
40) 1,2-Dichloropropane	9.37	63	319186	25.729	ug/L	100
41) Bromodichloromethane	9.64	83	422981	24.975	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	517933	27.081	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	530756	51.948	ug/L	98
44) Toluene	10.39	91	1334415	26.815	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	441026	26.116	ug/L	100
46) 1,1,2-Trichloroethane	10.79	97	235442	24.335	ug/L	99
47) Tetrachloroethene	10.86	164	250648	26.309	ug/L	97
49) 2-Hexanone	10.97	43	374083	51.538	ug/L	98
50) Dibromochloromethane	11.13	129	284832	24.802	ug/L	98
51) 1,2-Dibromoethane	11.24	107	235282	24.844	ug/L	98
52) Chlorobenzene	11.66	112	830265	25.569	ug/L	98
53) Ethylbenzene	11.73	91	1527177	27.457	ug/L	98
54) m,p-Xylene	11.84	106	568128	27.925	ug/L	99
55) o-xylene	12.16	106	546484	28.006	ug/L	100
56) Styrene	12.18	104	934289	27.351	ug/L	100
57) Isopropylbenzene	12.46	105	1495910	28.782	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.72	83	305687	24.018	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	230268	24.176	ug/L	98
62) Bromoform	12.35	173	163795	24.135	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	659157	28.230	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	651462	25.964	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	602185	26.285	ug/L	100
66) 1,2-Dibromo-3-chloropropan	14.49	75	58524	25.243	ug/L	93
67) 1,3,5-Trichlorobenzene	14.63	180	492873	28.818	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	422029	30.122	ug/L	100
69) Naphthalene	15.37	128	918351	30.540	ug/L	100
70) 1,2,3-Trichlorobenzene	15.56	180	373903	27.970	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 25.203 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

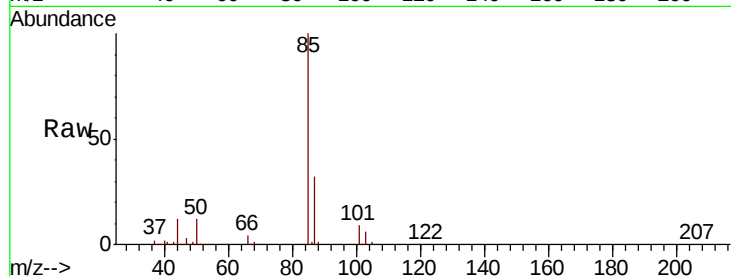
VSTD02510

Tgt Ion: 85 Resp: 301211

Ion Ratio Lower Upper

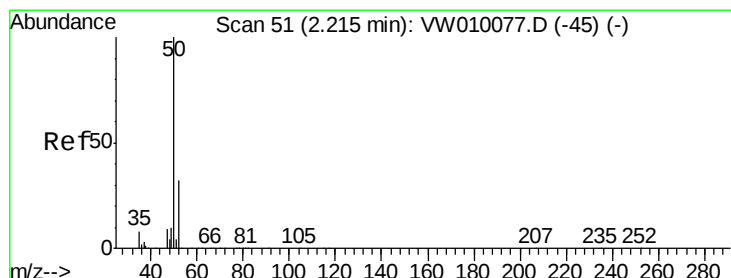
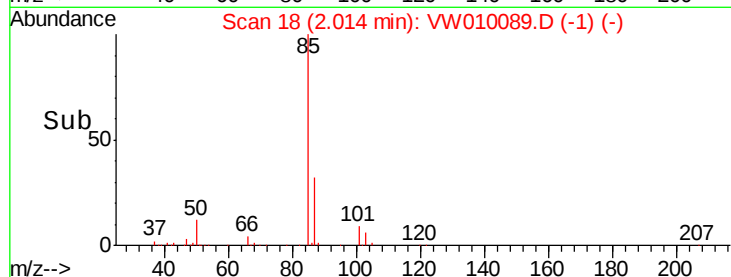
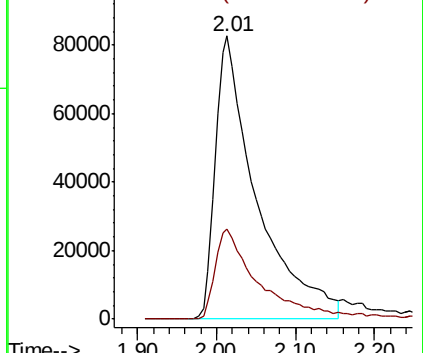
85 100

87 32.4 22.7 42.1



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 21.935 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW010089.D

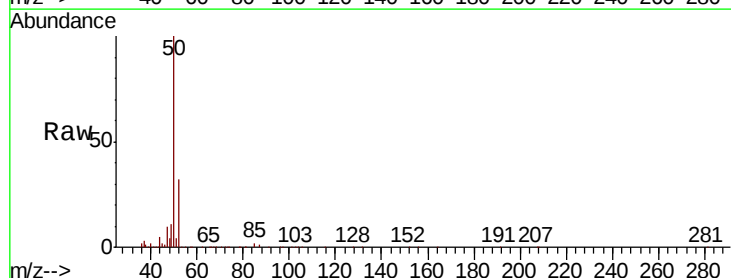
Acq: 22 Apr 2019 19:25

Tgt Ion: 50 Resp: 238944

Ion Ratio Lower Upper

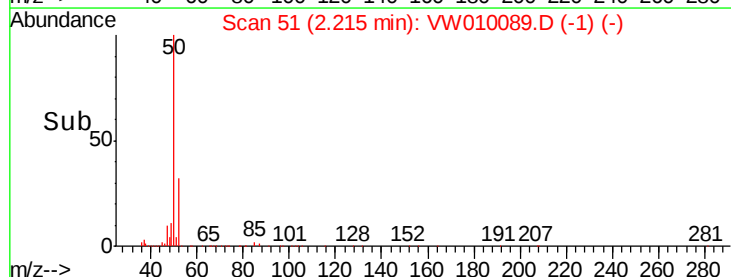
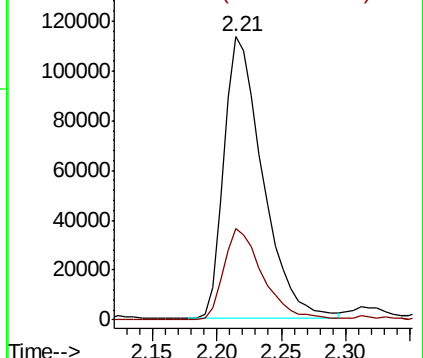
50 100

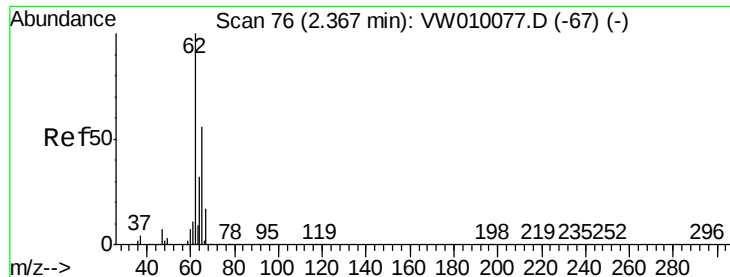
52 32.5 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 27.177 ug/L

RT: 2.37 min Scan# 77

Delta R.T. 0.01 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

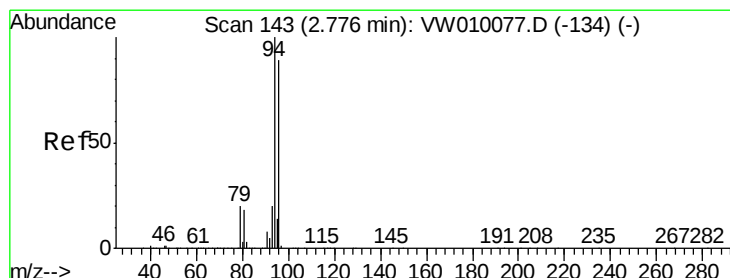
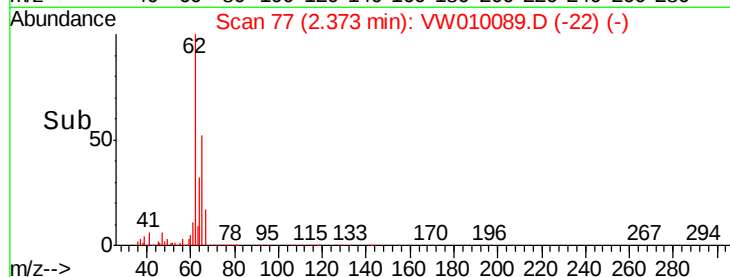
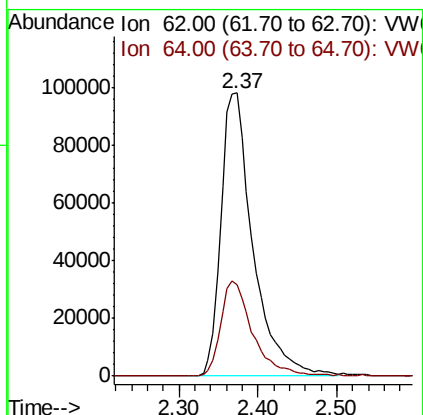
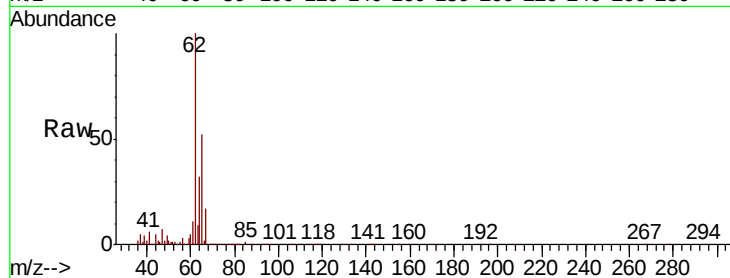
VSTD02510

Tgt Ion: 62 Resp: 278490

Ion Ratio Lower Upper

62 100

64 32.4 23.3 43.3



#6

Bromomethane

Concen: 21.330 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW010089.D

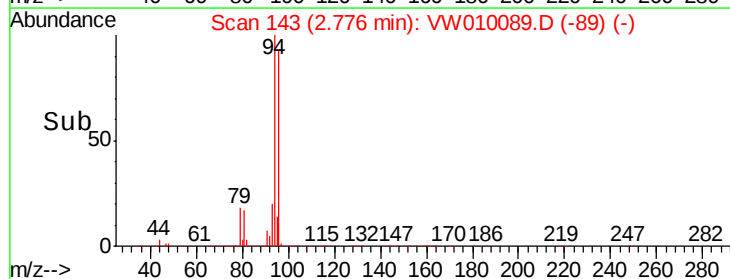
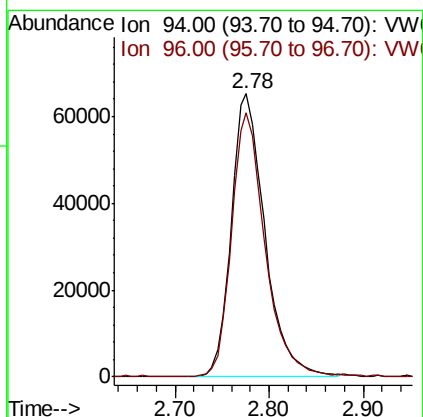
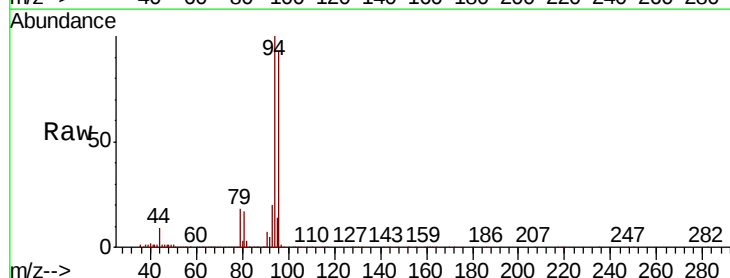
Acq: 22 Apr 2019 19:25

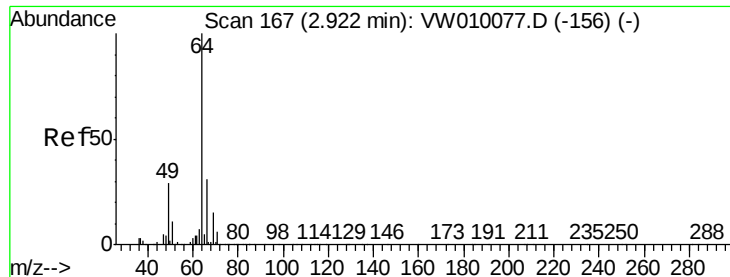
Tgt Ion: 94 Resp: 161418

Ion Ratio Lower Upper

94 100

96 93.3 9.5 180.3





#8

Chloroethane

Concen: 21.934 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

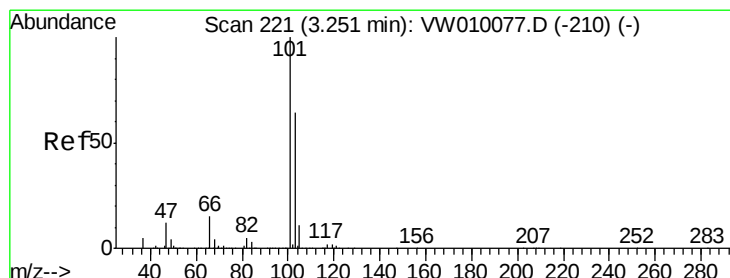
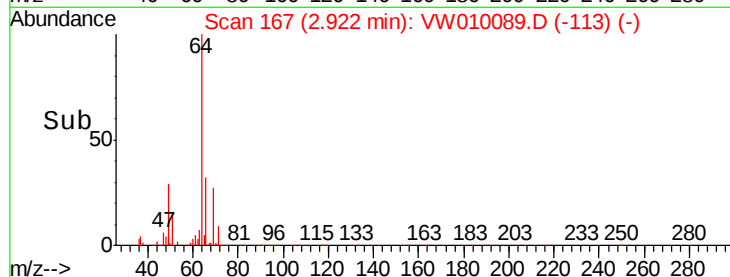
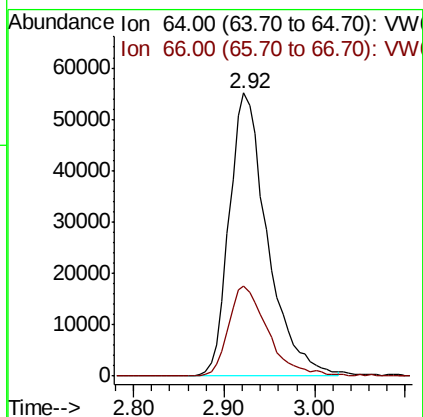
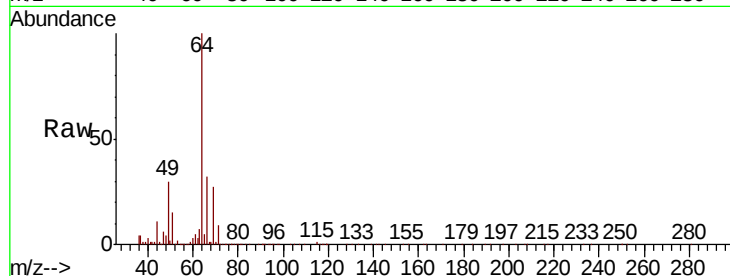
VSTD02510

Tgt Ion: 64 Resp: 161361

Ion Ratio Lower Upper

64 100

66 31.8 21.7 40.3



#9

Trichlorofluoromethane

Concen: 18.524 ug/L

RT: 3.25 min Scan# 221

Delta R.T. -0.00 min

Lab File: VW010089.D

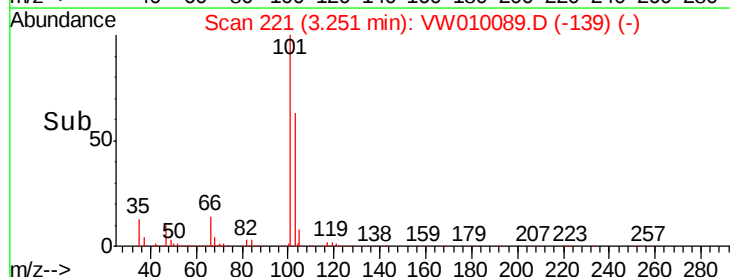
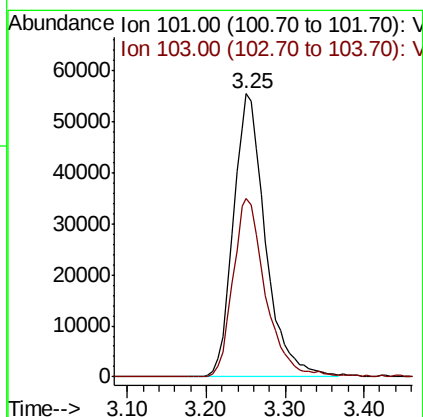
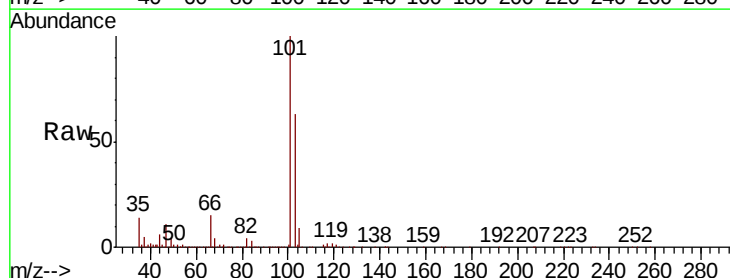
Acq: 22 Apr 2019 19:25

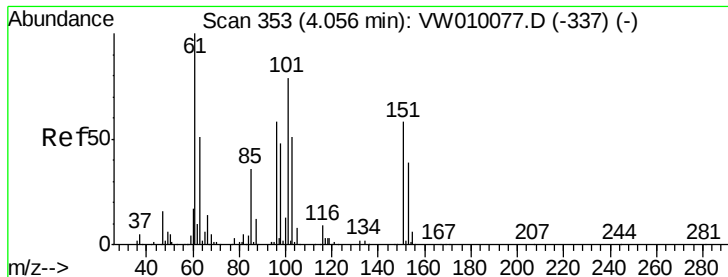
Tgt Ion: 101 Resp: 156276

Ion Ratio Lower Upper

101 100

103 62.7 44.5 82.7





#11

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

Concen: 25.528 ug/L

RT: 4.05 min Scan# 352

Delta R.T. -0.01 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

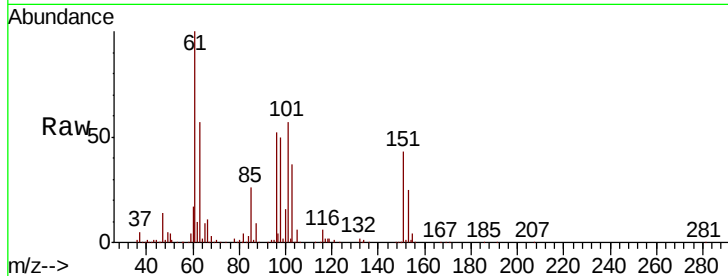
Tgt Ion: 101 Resp: 280409

Ion Ratio Lower Upper

101 100

85 44.2 37.0 55.4

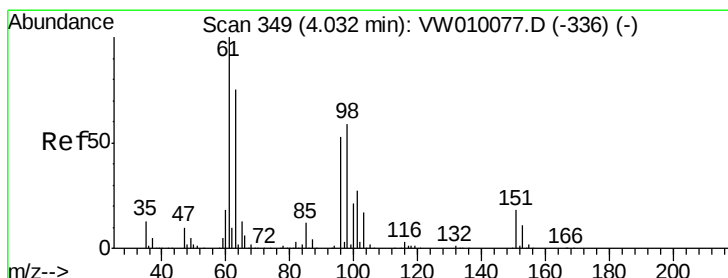
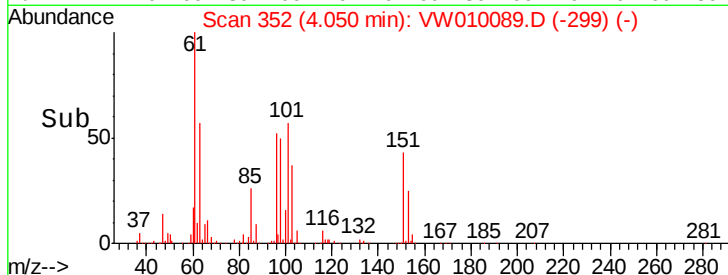
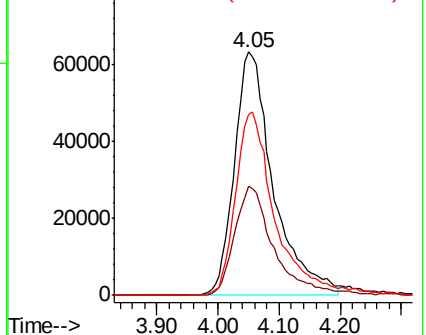
151 74.3 58.2 87.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 27.275 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.01 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

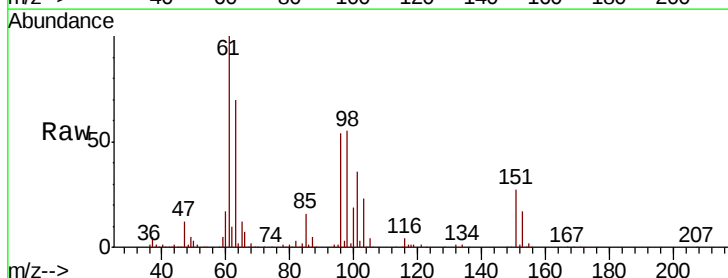
Tgt Ion: 96 Resp: 280504

Ion Ratio Lower Upper

96 100

61 184.0 131.2 243.6

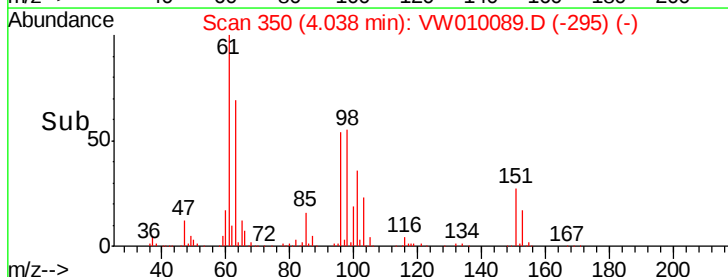
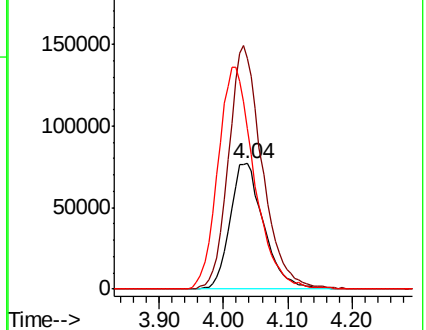
63 127.9 113.9 211.5

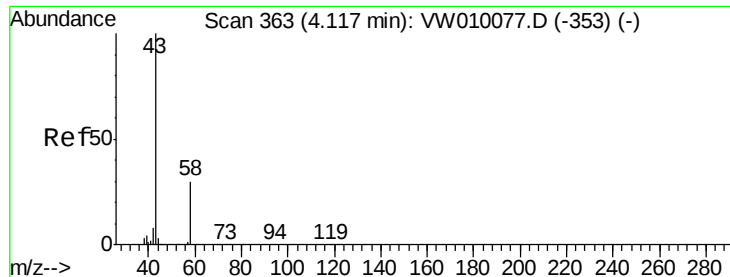


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 38.776 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

Instrument :

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ClientSampleId :

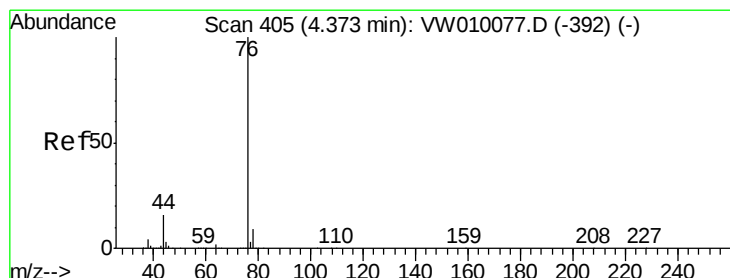
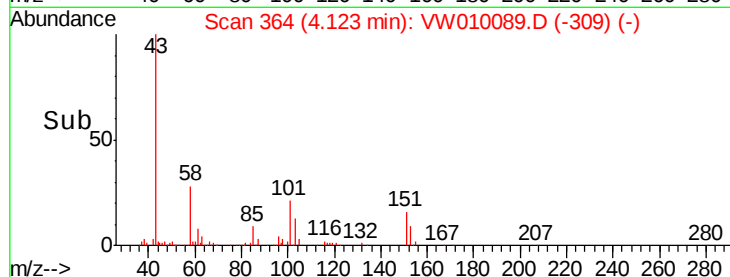
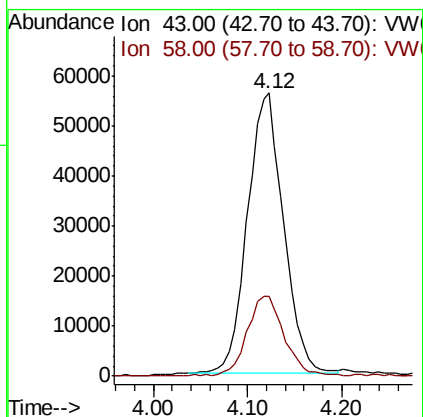
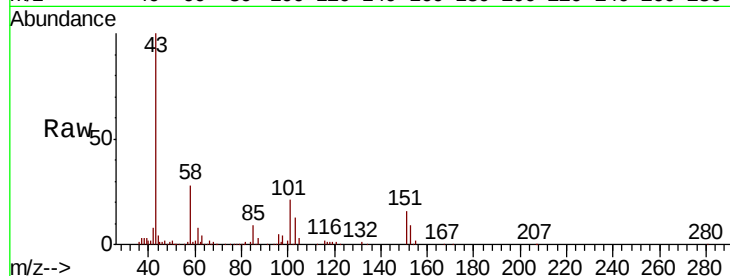
VSTD02510

Tgt Ion: 43 Resp: 150151

Ion Ratio Lower Upper

43 100

58 29.3 0.0 56.2



#14

Carbon disulfide

Concen: 26.937 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.01 min

Lab File: VW010089.D

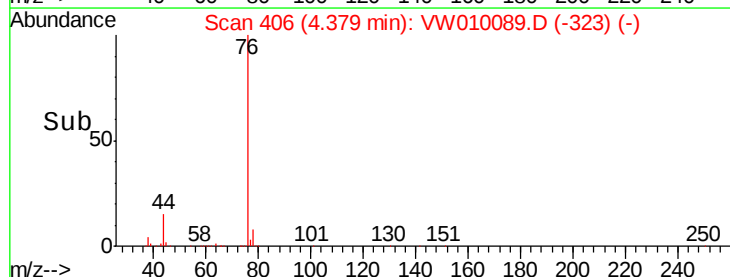
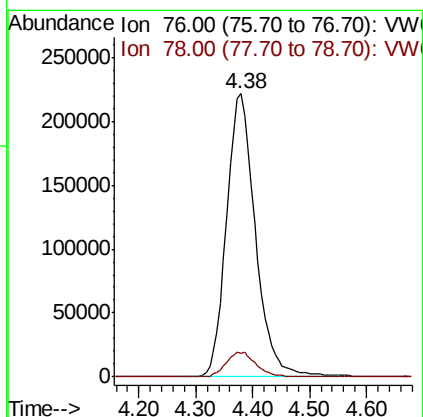
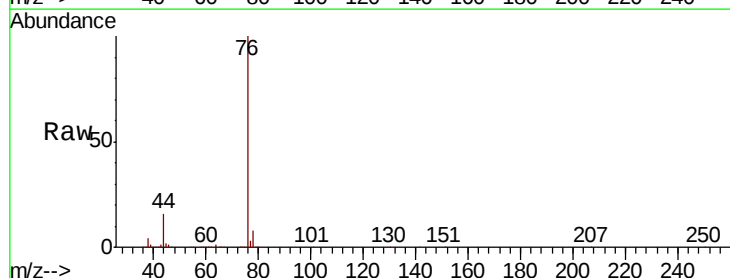
Acq: 22 Apr 2019 19:25

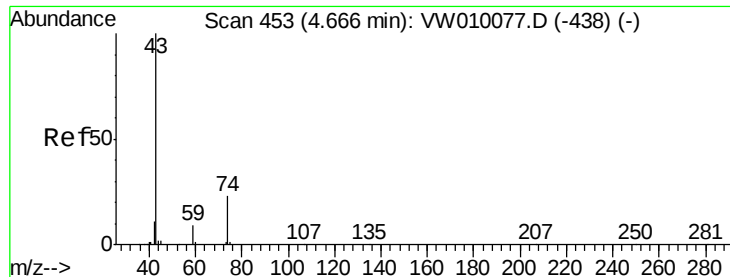
Tgt Ion: 76 Resp: 785302

Ion Ratio Lower Upper

76 100

78 8.4 7.5 11.3

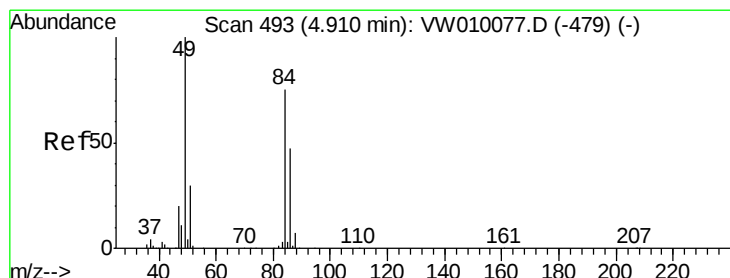
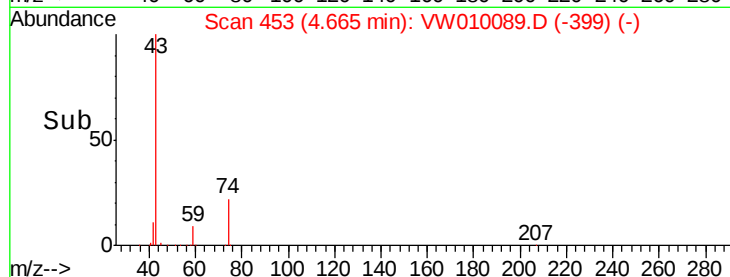
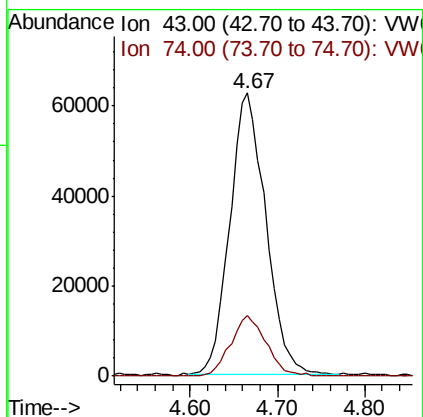
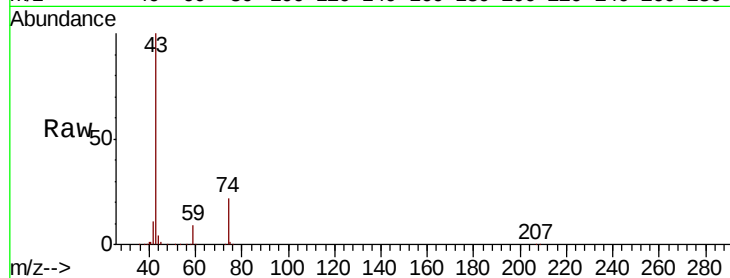




#15
Methyl Acetate
Concen: 22.948 ug/L
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW010089.D
Acq: 22 Apr 2019 19:25

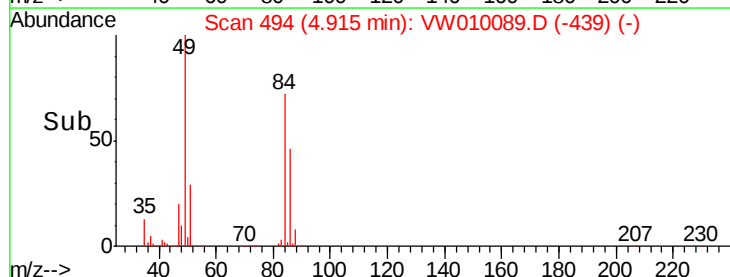
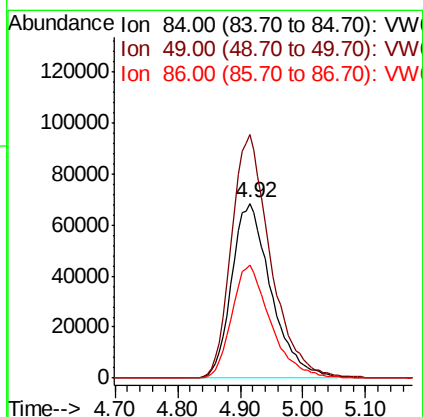
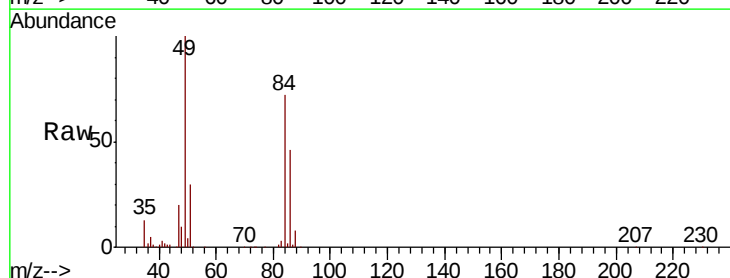
Instrument :
MSVOA_W
ClientSampleId :
VSTD02510

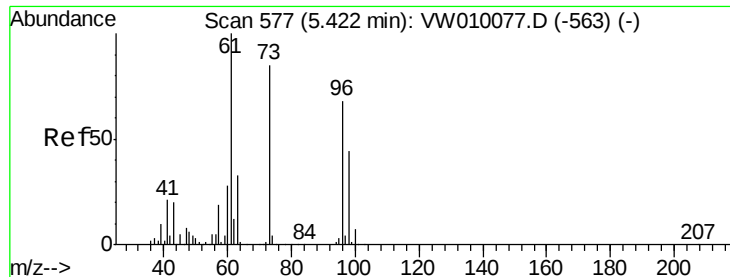
Tgt Ion: 43 Resp: 179355
Ion Ratio Lower Upper
43 100
74 21.2 16.2 24.4



#16
Methylene chloride
Concen: 19.347 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW010089.D
Acq: 22 Apr 2019 19:25

Tgt Ion: 84 Resp: 298411
Ion Ratio Lower Upper
84 100
49 139.2 100.7 187.1
86 64.4 43.8 81.3

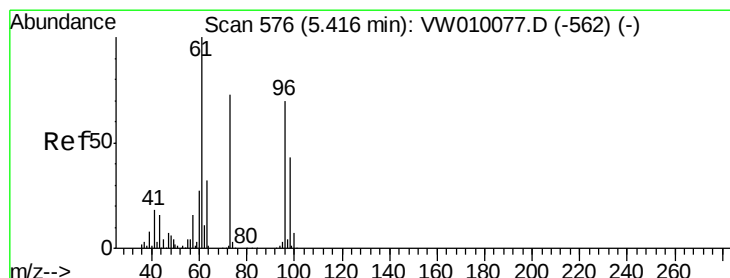
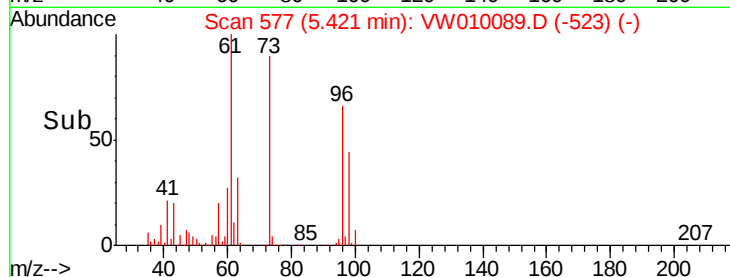
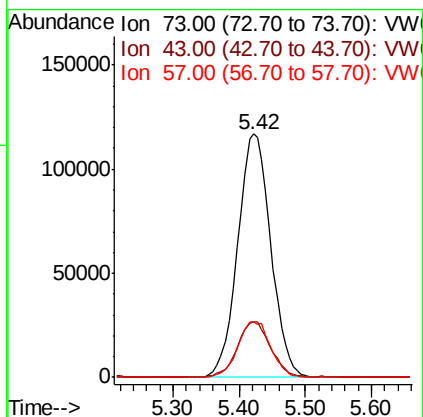
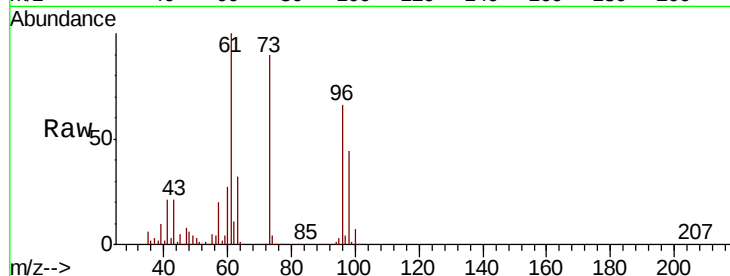




#17
Methyl tert-butyl Ether
Concen: 26.999 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW010089.D
Acq: 22 Apr 2019 19:25

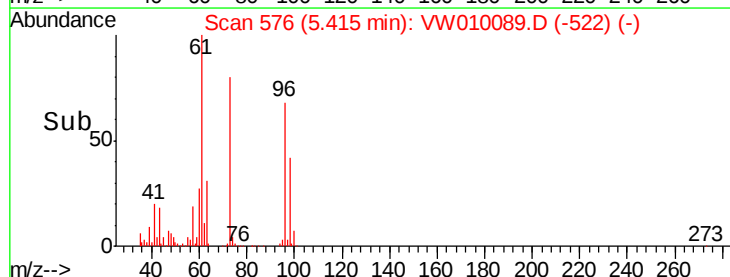
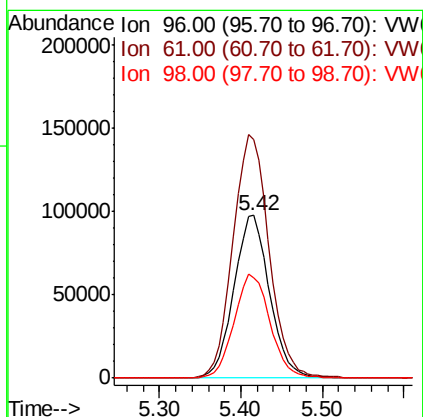
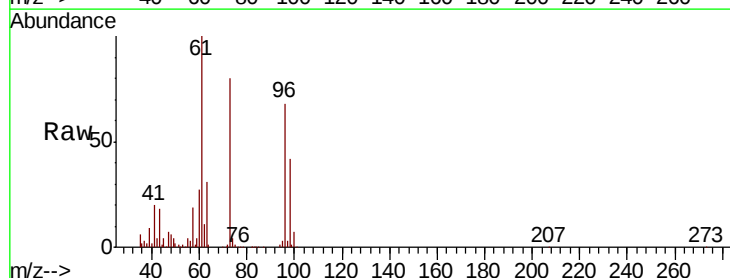
Instrument :
MSVOA_W
ClientSampled :
VSTD02510

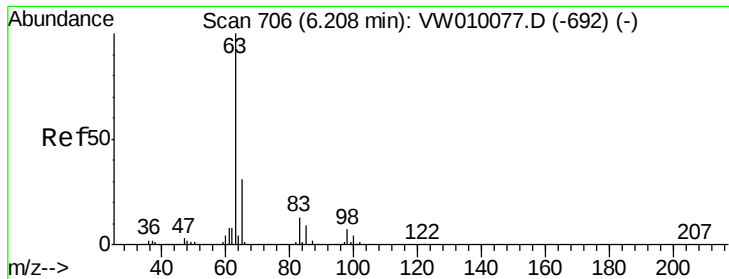
Tgt Ion: 73 Resp: 406364
Ion Ratio Lower Upper
73 100
43 22.6 19.4 29.0
57 14.3 18.6 28.0#



#18
trans-1,2-Dichloroethene
Concen: 25.420 ug/L
RT: 5.42 min Scan# 576
Delta R.T. -0.00 min
Lab File: VW010089.D
Acq: 22 Apr 2019 19:25

Tgt Ion: 96 Resp: 295862
Ion Ratio Lower Upper
96 100
61 146.4 104.9 194.9
98 61.9 44.1 81.9

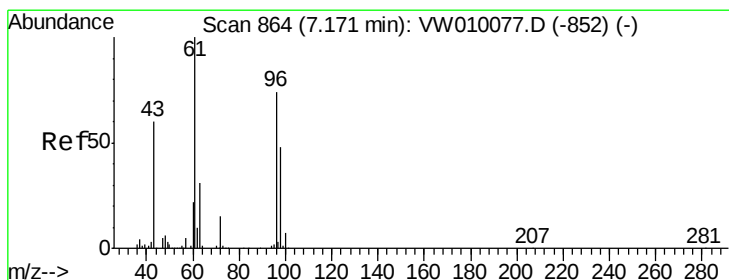
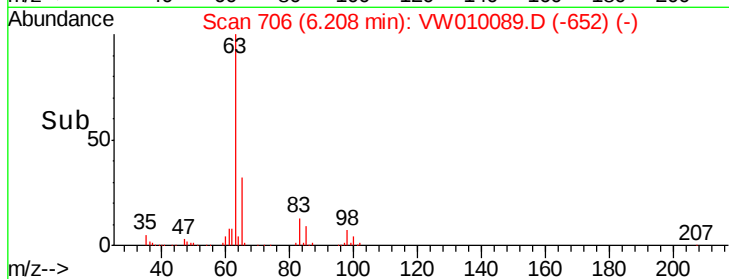
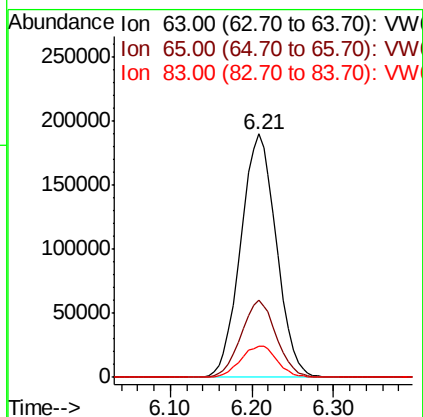
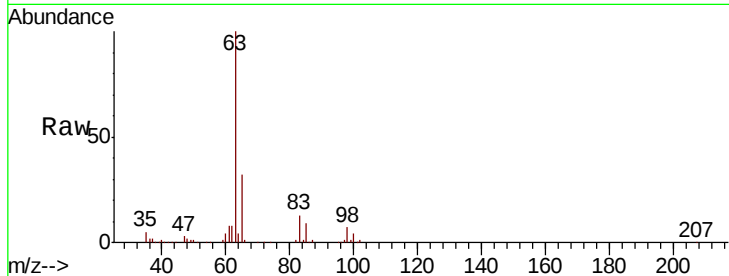




#19
 1,1-Dichloroethane
 Concen: 24.898 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. -0.00 min
 Lab File: VW010089.D
 Acq: 22 Apr 2019 19:25

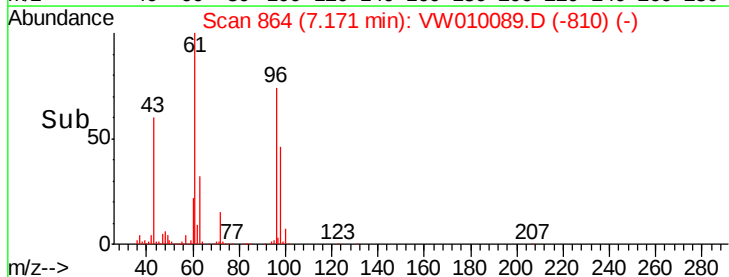
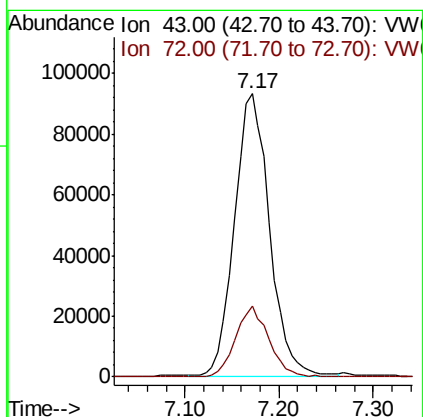
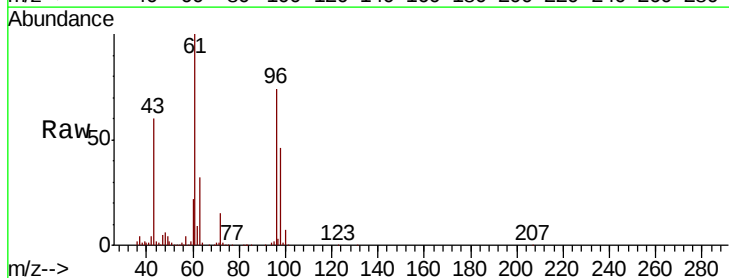
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

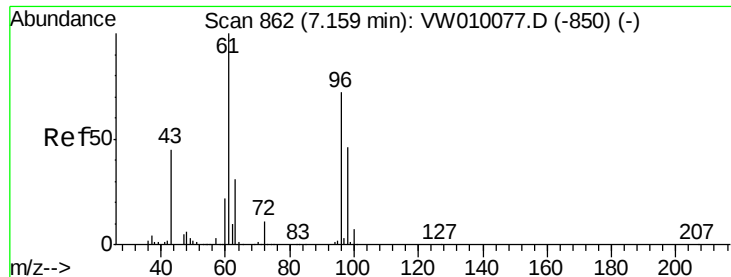
Tgt Ion: 63 Resp: 577629
 Ion Ratio Lower Upper
 63 100
 65 31.6 21.6 40.0
 83 12.9 9.0 16.6



#21
 2-Butanone
 Concen: 48.005 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VW010089.D
 Acq: 22 Apr 2019 19:25

Tgt Ion: 43 Resp: 243414
 Ion Ratio Lower Upper
 43 100
 72 23.7 11.9 35.7



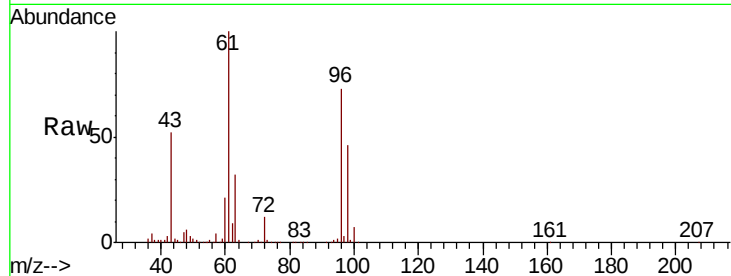


#22

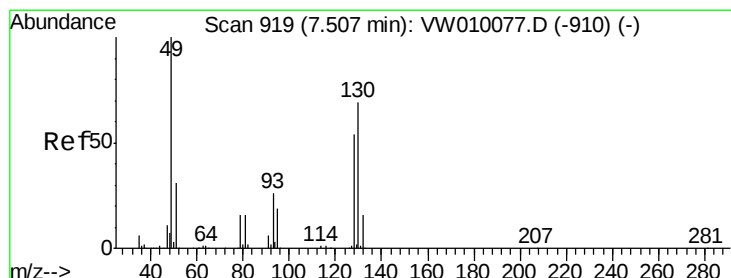
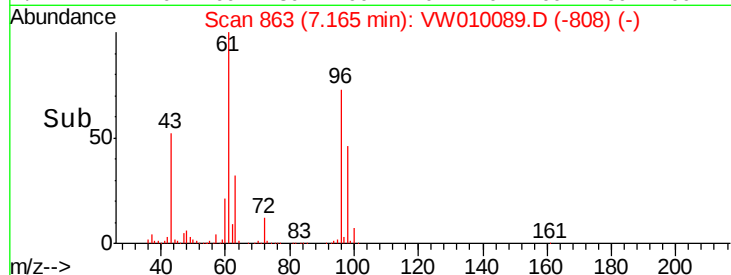
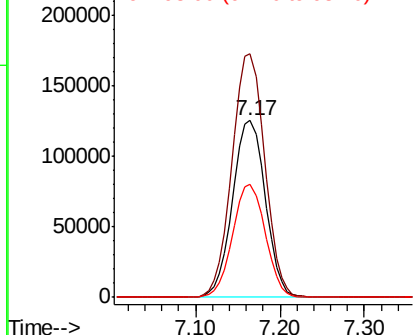
cis-1,2-Dichloroethene
 Concen: 26.183 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. 0.01 min
 Lab File: VW010089.D
 Acq: 22 Apr 2019 19:25

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

Tgt Ion: 96 Resp: 330717
 Ion Ratio Lower Upper
 96 100
 61 137.5 94.7 175.9
 98 63.6 42.8 79.6



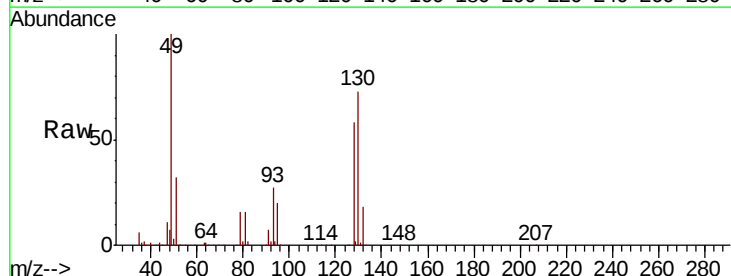
Abundance Ion 96.00 (95.70 to 96.70): VW
 Ion 61.00 (60.70 to 61.70): VW
 Ion 98.00 (97.70 to 98.70): VW



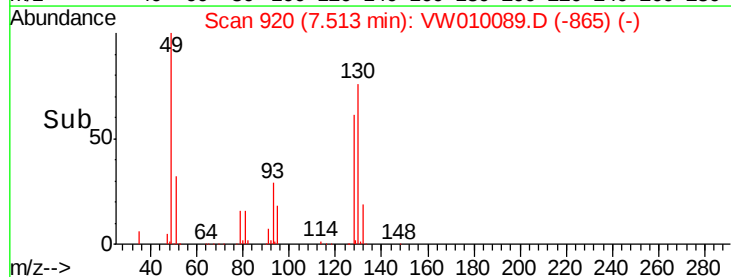
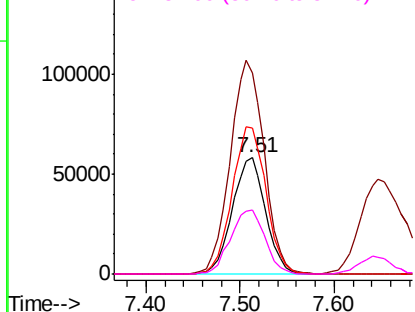
#23

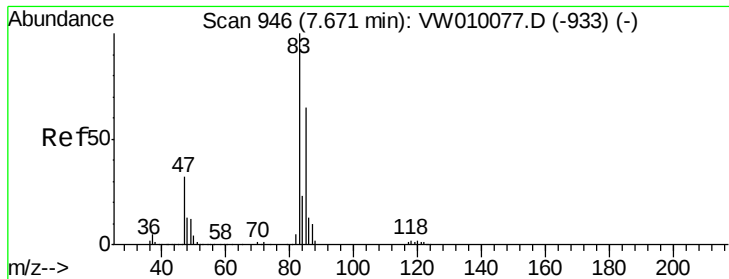
Bromochloromethane
 Concen: 24.167 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. 0.01 min
 Lab File: VW010089.D
 Acq: 22 Apr 2019 19:25

Tgt Ion: 128 Resp: 142158
 Ion Ratio Lower Upper
 128 100
 49 172.4 132.2 245.4
 130 126.1 91.5 169.9
 51 54.7 45.4 68.0



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VW
 Ion 130.00 (129.70 to 130.70): V
 Ion 51.00 (50.70 to 51.70): VW





#25

Chloroform

Concen: 23.980 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

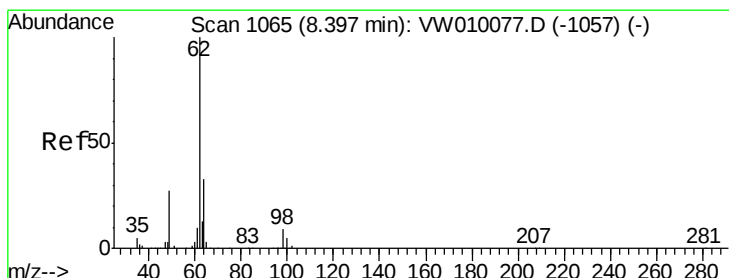
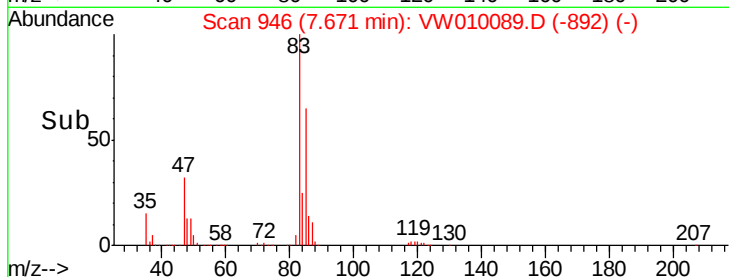
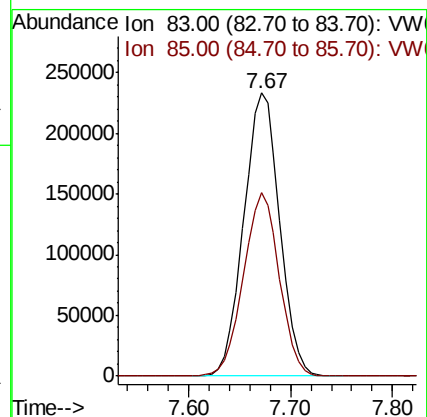
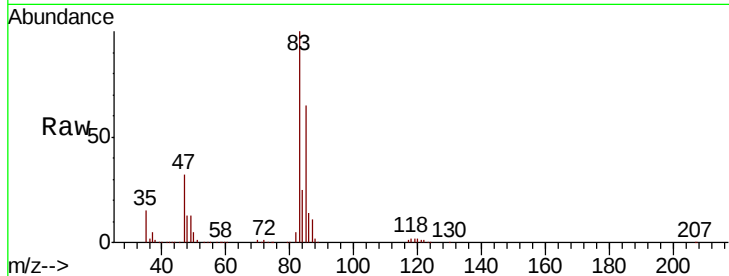
VSTD02510

Tgt Ion: 83 Resp: 569268

Ion Ratio Lower Upper

83 100

85 64.9 45.5 84.5



#27

1,2-Dichloroethane

Concen: 22.670 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW010089.D

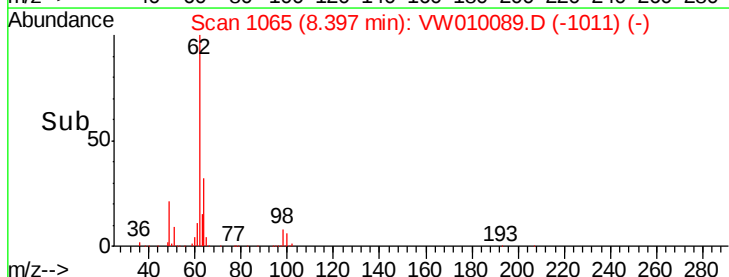
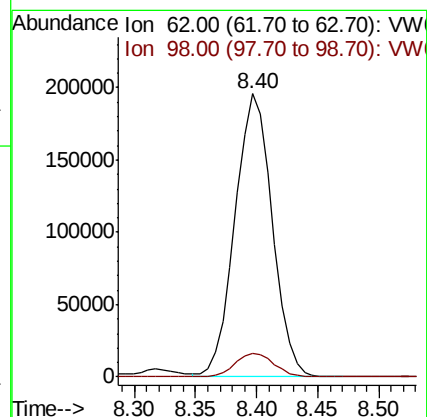
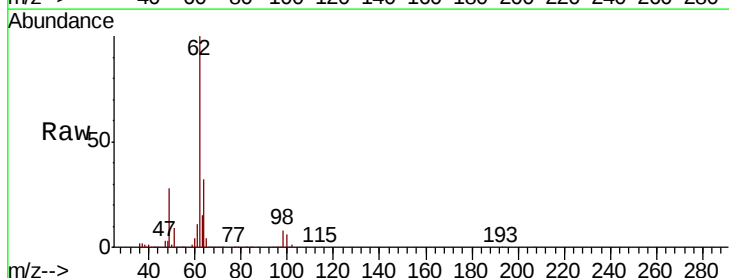
Acq: 22 Apr 2019 19:25

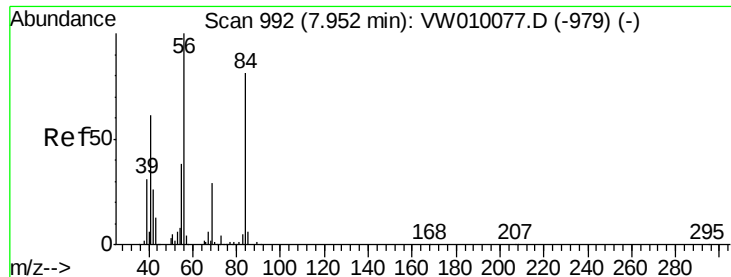
Tgt Ion: 62 Resp: 414334

Ion Ratio Lower Upper

62 100

98 8.4 6.6 10.0

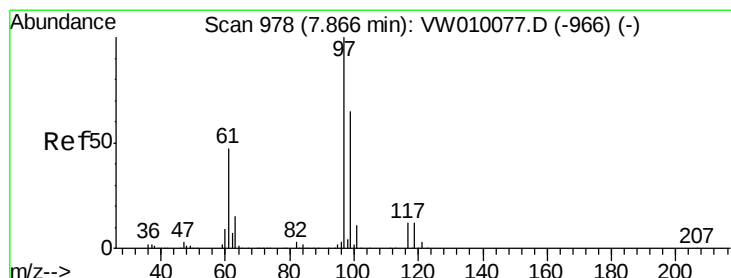
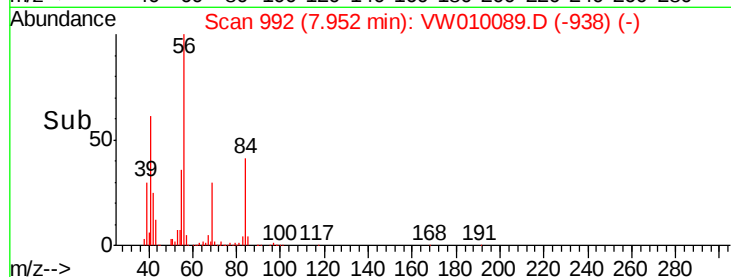
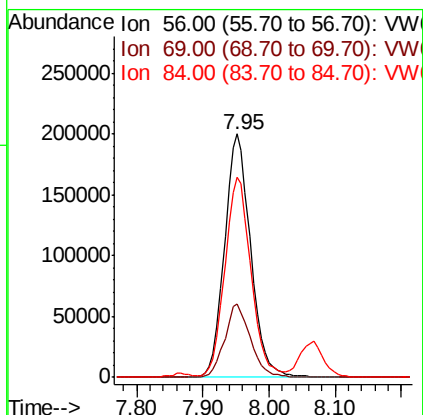
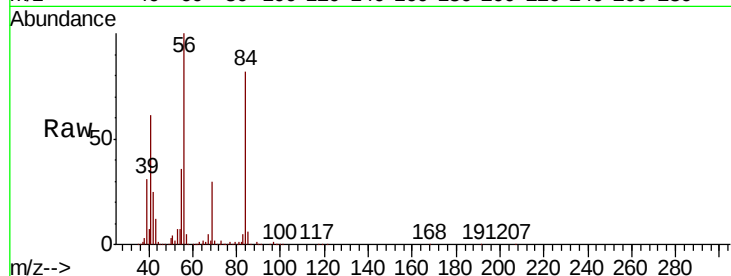




#30
Cyclohexane
Concen: 30.280 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW010089.D
Acq: 22 Apr 2019 19:25

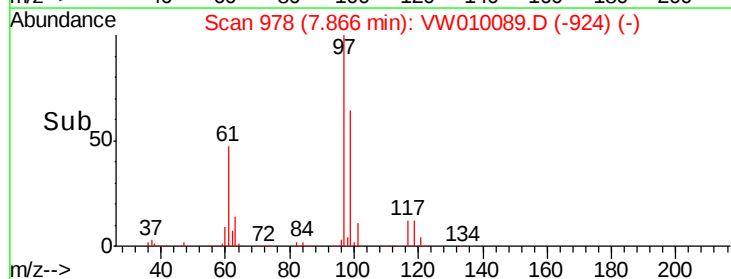
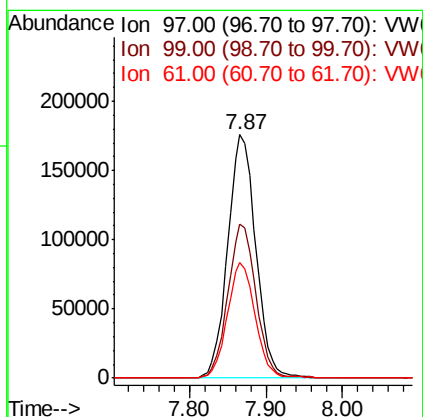
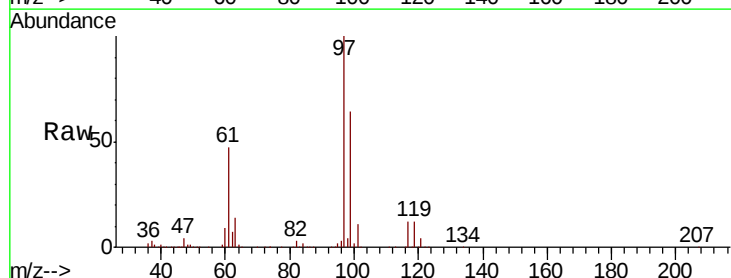
Instrument :
MSVOA_W
ClientSampled :
VSTD02510

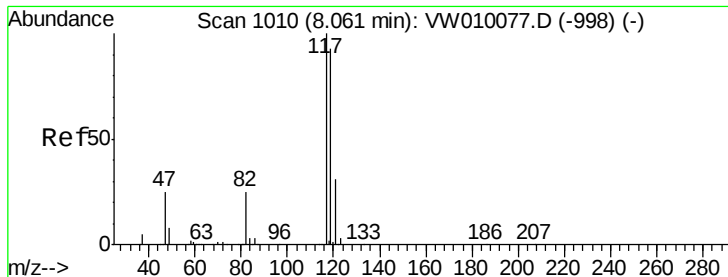
Tgt Ion: 56 Resp: 544915
Ion Ratio Lower Upper
56 100
69 29.7 23.4 35.0
84 82.2 65.5 98.3



#31
1,1,1-Trichloroethane
Concen: 26.863 ug/L
RT: 7.87 min Scan# 978
Delta R.T. -0.00 min
Lab File: VW010089.D
Acq: 22 Apr 2019 19:25

Tgt Ion: 97 Resp: 446717
Ion Ratio Lower Upper
97 100
99 62.9 50.8 76.2
61 46.5 39.3 58.9





#32

Carbon tetrachloride

Concen: 26.479 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.00 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

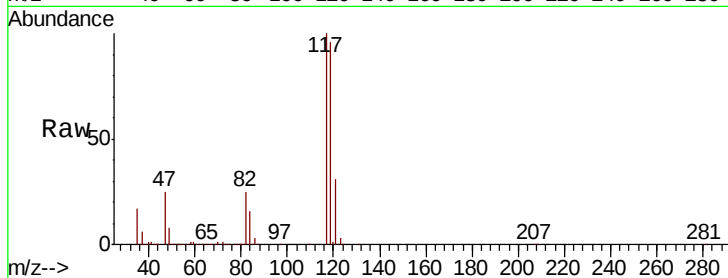
VSTD02510

Tgt Ion:117 Resp: 432331

Ion Ratio Lower Upper

117 100

119 96.0 76.8 115.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

200000

150000

100000

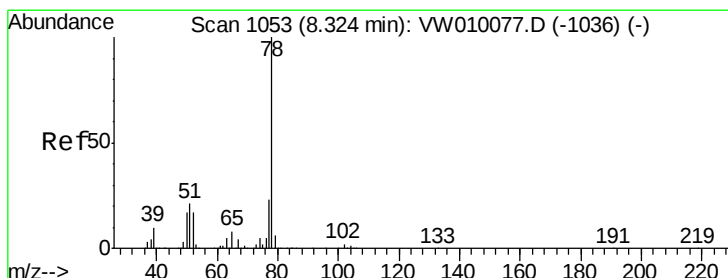
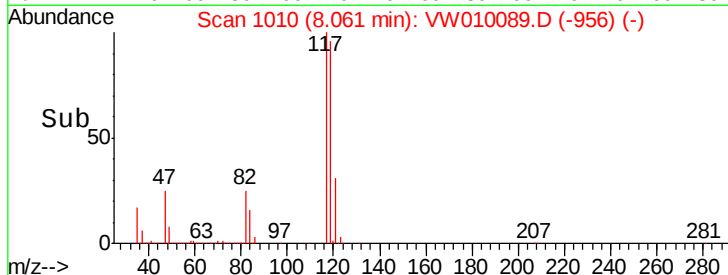
50000

0

8.06

8.10

Time-->



#34

Benzene

Concen: 26.315 ug/L

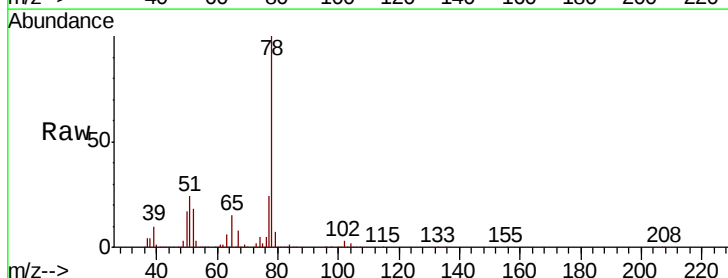
RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

Tgt Ion: 78 Resp: 1234375



Abundance Ion 78.00 (77.70 to 78.70): VW

600000

500000

400000

300000

200000

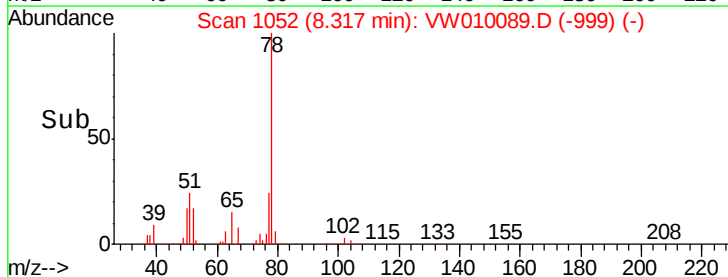
100000

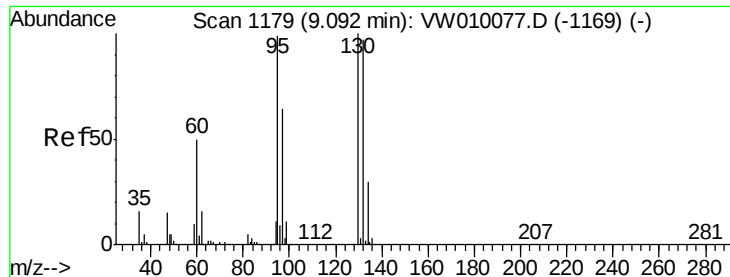
0

8.32

8.40

Time-->

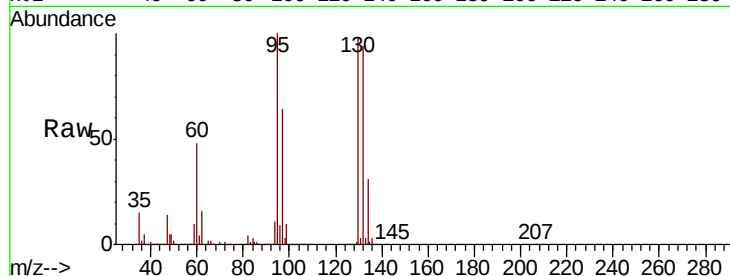




#35
 Trichloroethene
 Concen: 26.575 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. -0.00 min
 Lab File: VW010089.D
 Acq: 22 Apr 2019 19:25

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

Tgt Ion:	95	Resp:	324121
Ion	Ratio	Lower	Upper
95	100		
97	64.2	45.3	84.1
132	94.8	65.6	121.8
130	99.0	68.5	127.3



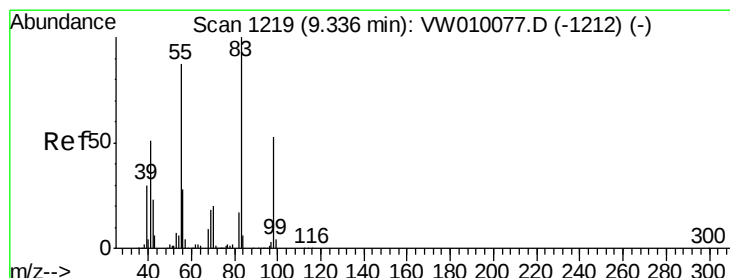
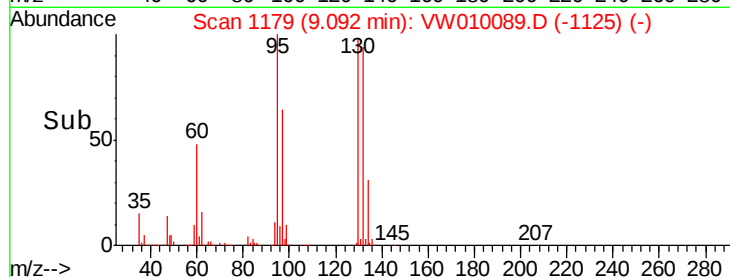
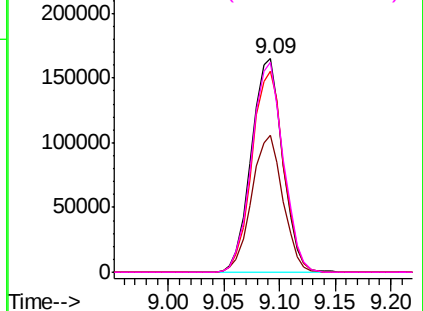
Abundance

Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

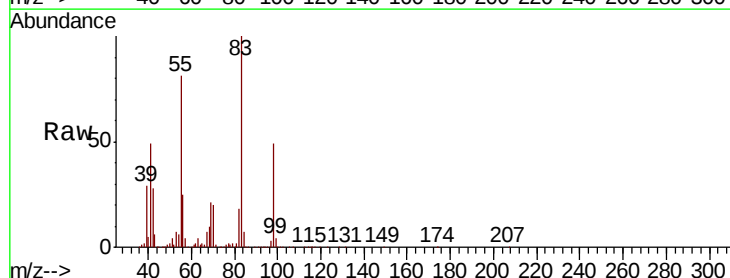
Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36
 Methylcyclohexane
 Concen: 28.946 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: VW010089.D
 Acq: 22 Apr 2019 19:25

Tgt Ion:	83	Resp:	567211
Ion	Ratio	Lower	Upper
83	100		
55	82.1	68.4	102.6
98	48.8	40.0	60.0

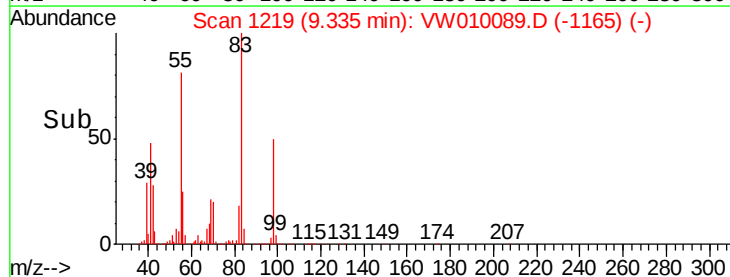
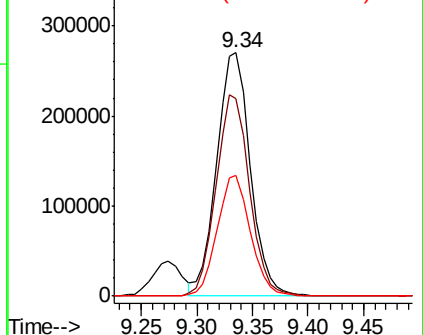


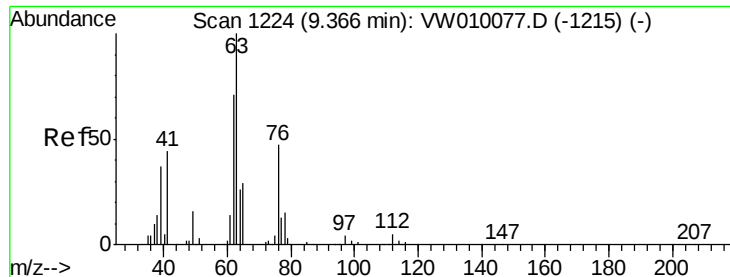
Abundance

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

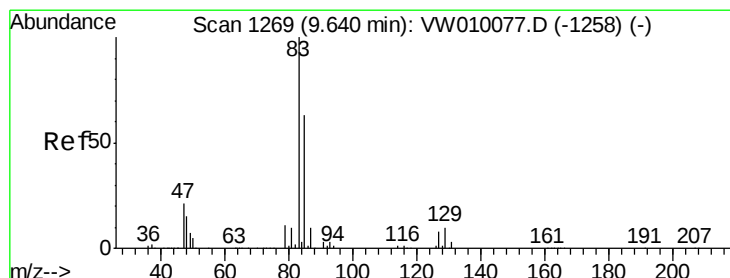
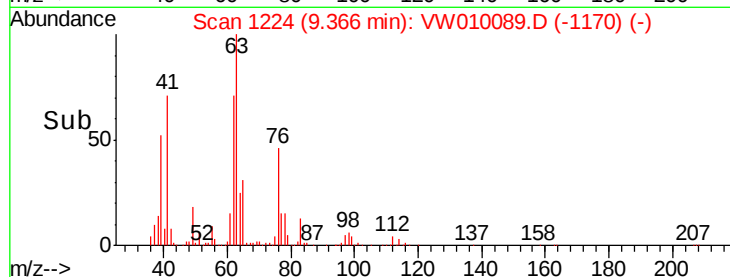
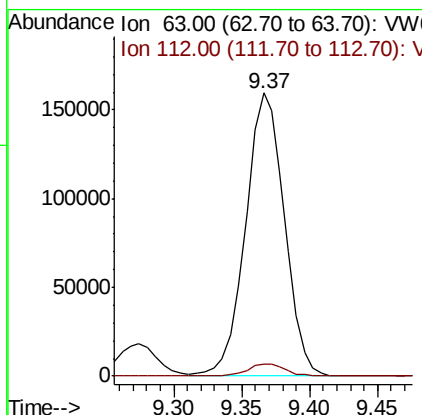
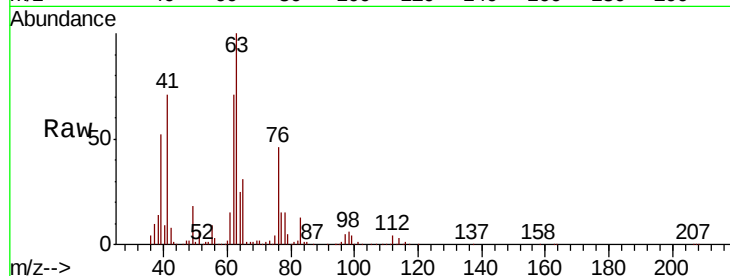




#40
 1,2-Dichloropropane
 Concen: 25.729 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW010089.D
 Acq: 22 Apr 2019 19:25

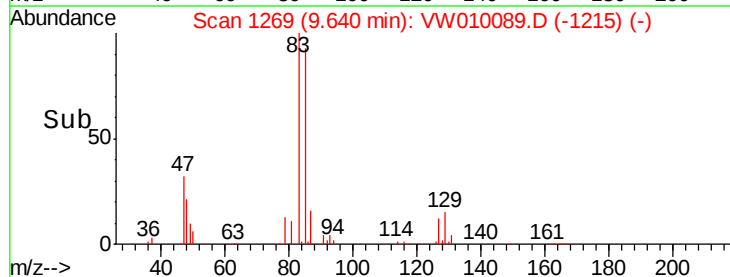
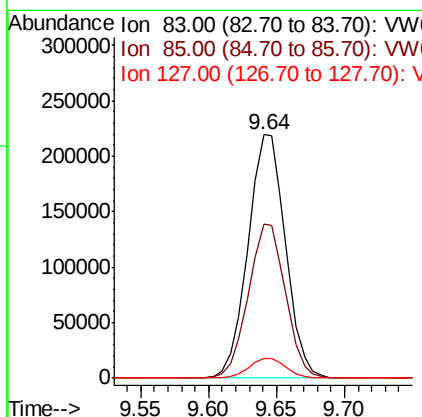
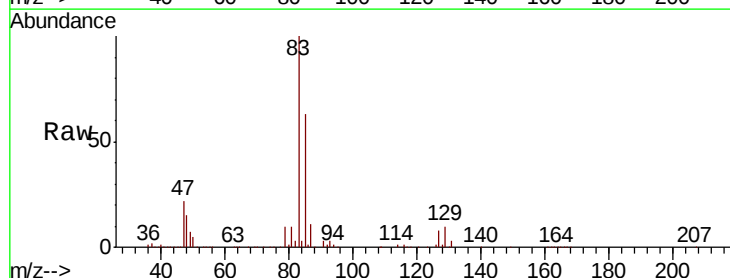
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

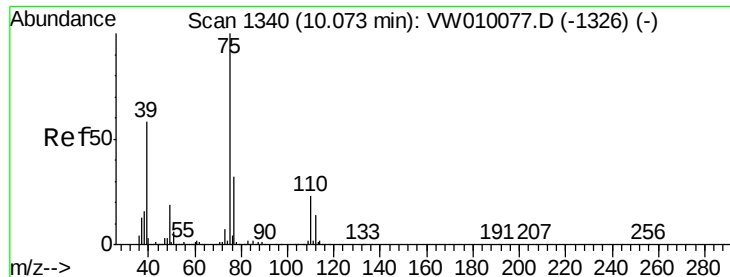
Tgt Ion: 63 Resp: 319186
 Ion Ratio Lower Upper
 63 100
 112 4.3 3.4 5.2



#41
 Bromodichloromethane
 Concen: 24.975 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VW010089.D
 Acq: 22 Apr 2019 19:25

Tgt Ion: 83 Resp: 422981
 Ion Ratio Lower Upper
 83 100
 85 63.0 45.1 83.9
 127 8.1 6.1 9.1





#42

cis-1,3-Dichloropropene

Concen: 27.081 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

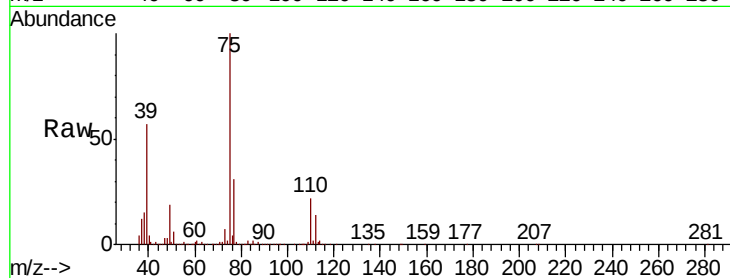
VSTD02510

Tgt Ion: 75 Resp: 517933

Ion Ratio Lower Upper

75 100

77 31.1 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.07

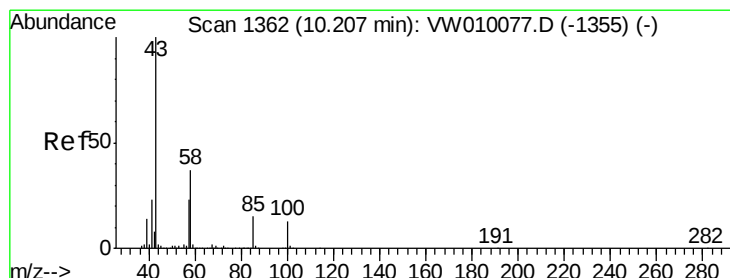
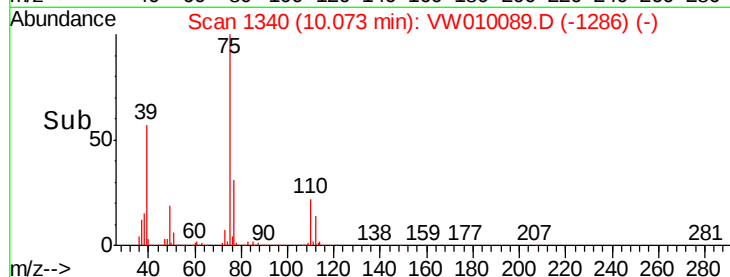
300000

200000

100000

0

Time-->



#43

4-Methyl-2-pentanone

Concen: 51.948 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

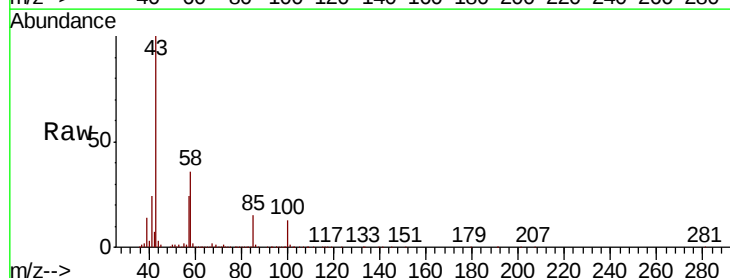
Tgt Ion: 43 Resp: 530756

Ion Ratio Lower Upper

43 100

58 36.0 27.9 41.9

100 14.0 10.5 15.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 100.00 (99.70 to 100.70): VW

500000

400000

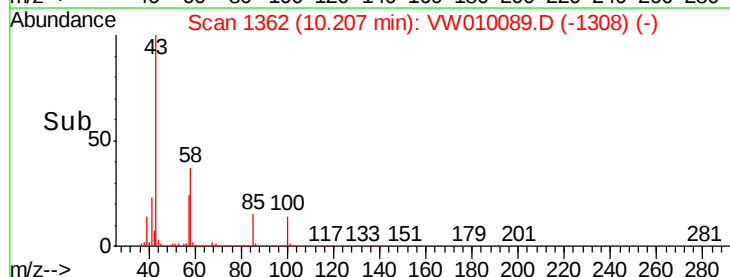
300000

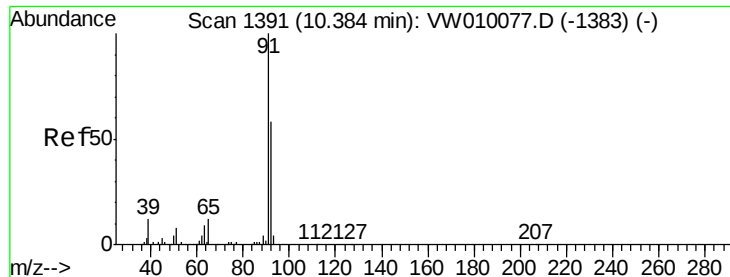
200000

100000

0

Time-->





#44

Toluene

Concen: 26.815 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

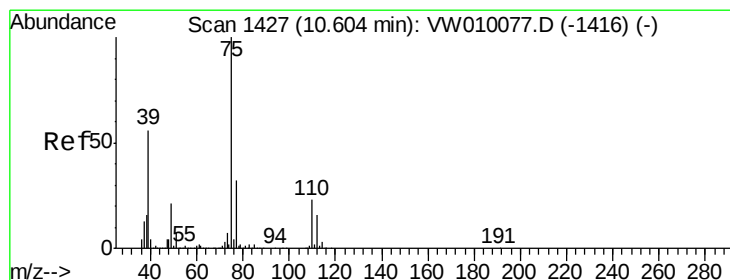
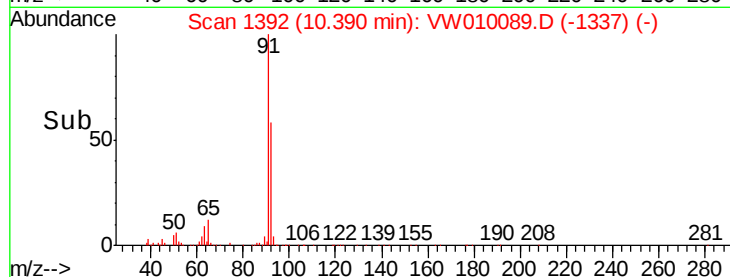
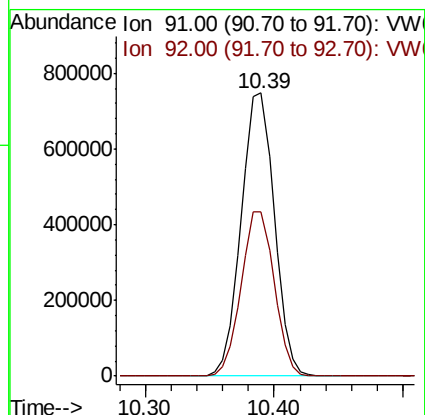
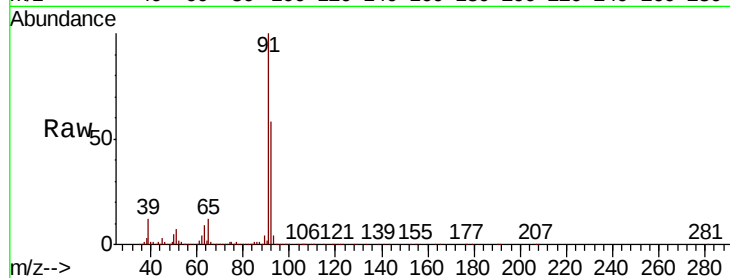
VSTD02510

Tgt Ion: 91 Resp: 1334415

Ion Ratio Lower Upper

91 100

92 58.1 39.8 74.0



#45

trans-1,3-Dichloropropene

Concen: 26.116 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW010089.D

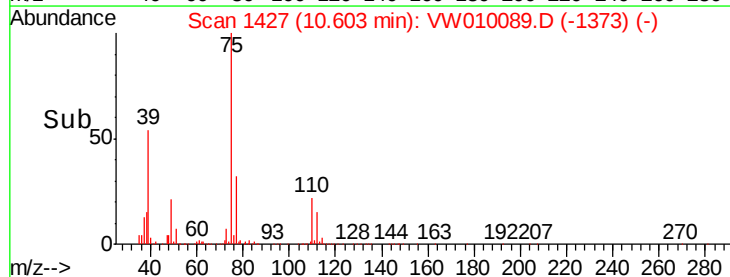
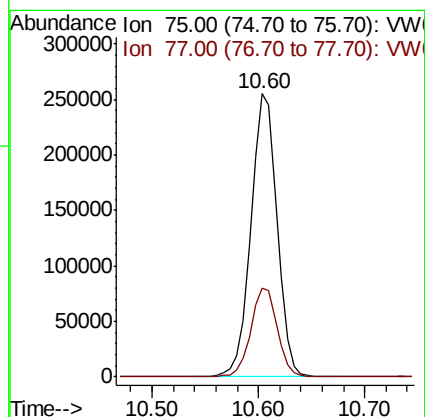
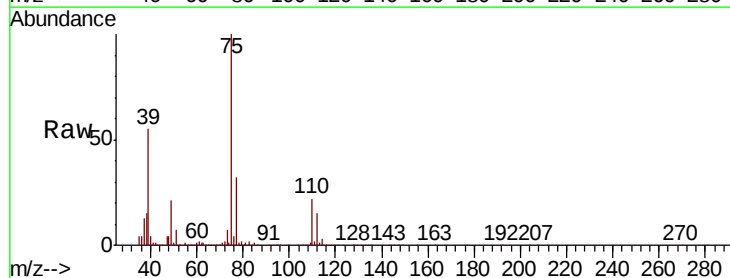
Acq: 22 Apr 2019 19:25

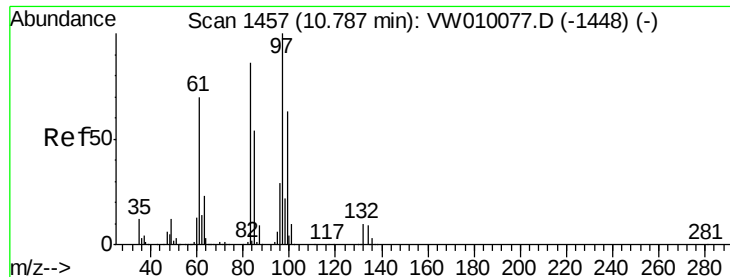
Tgt Ion: 75 Resp: 441026

Ion Ratio Lower Upper

75 100

77 31.6 22.0 41.0





#46

1,1,2-Trichloroethane

Concen: 24.335 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

Tgt Ion: 97 Resp: 235442

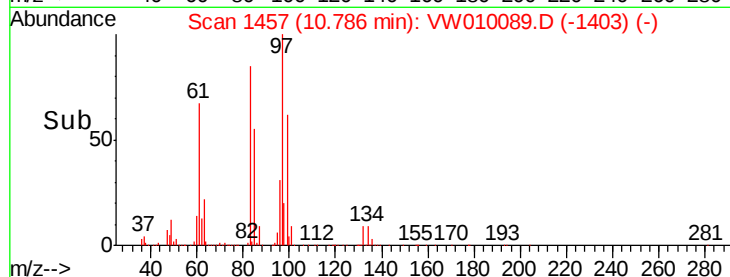
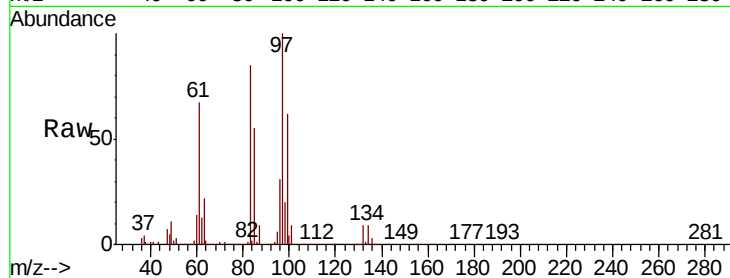
Ion Ratio Lower Upper

97 100

83 85.0 59.1 109.7

85 54.7 39.3 73.1

99 62.2 43.6 81.0



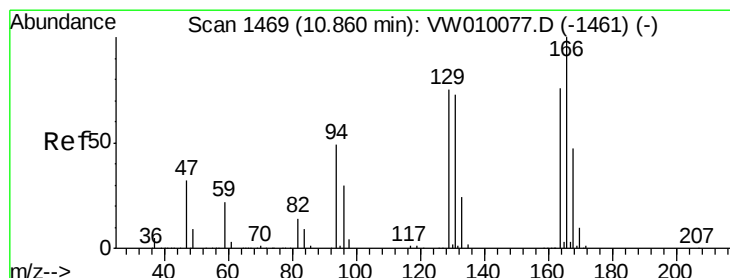
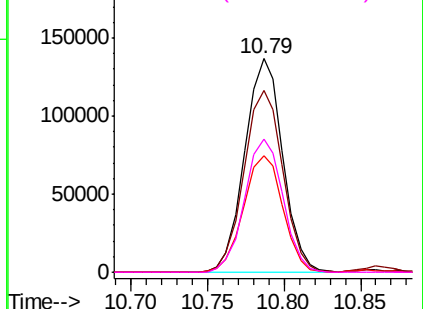
Abundance

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: 26.309 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

Tgt Ion: 164 Resp: 250648

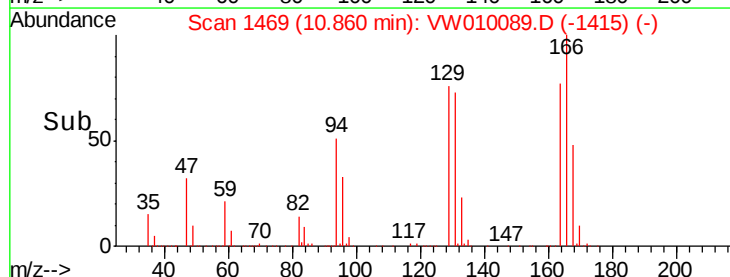
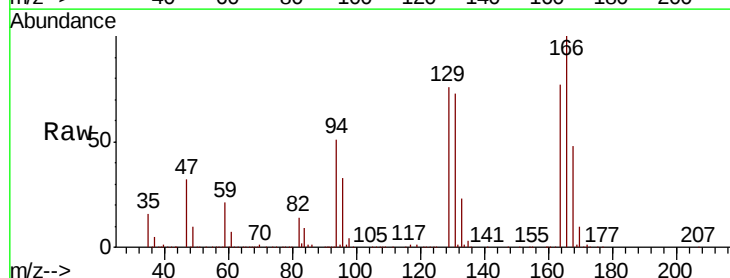
Ion Ratio Lower Upper

164 100

129 99.1 66.8 124.2

131 95.4 65.2 121.0

166 130.7 89.0 165.2



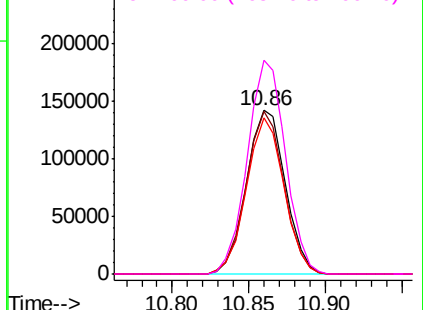
Abundance

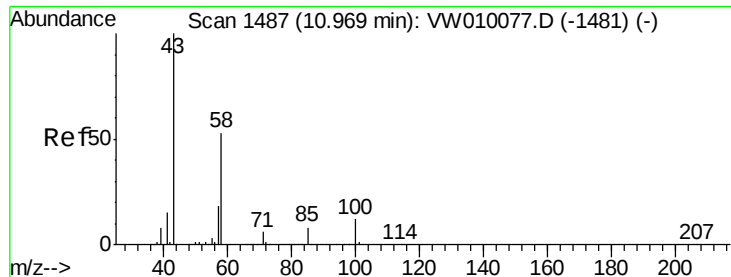
Ion 164.00 (163.70 to 164.70): V

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

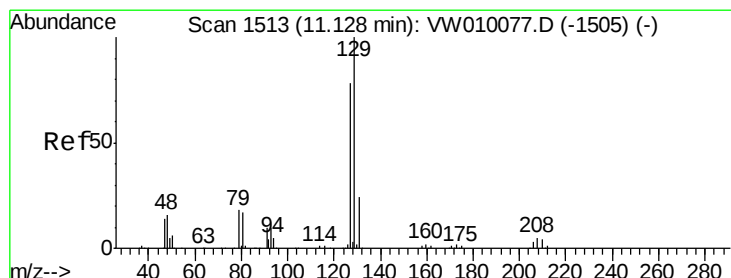
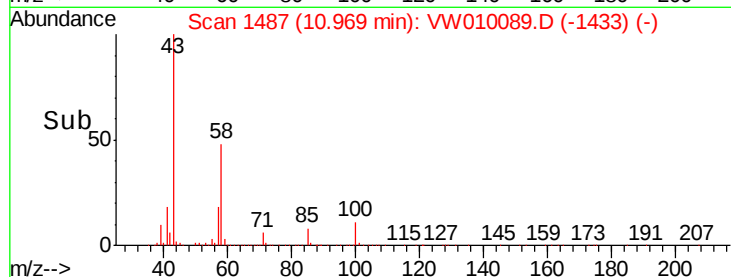
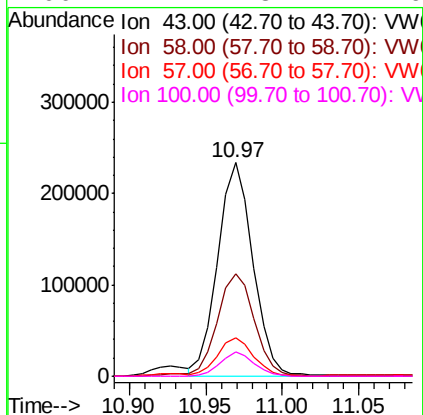
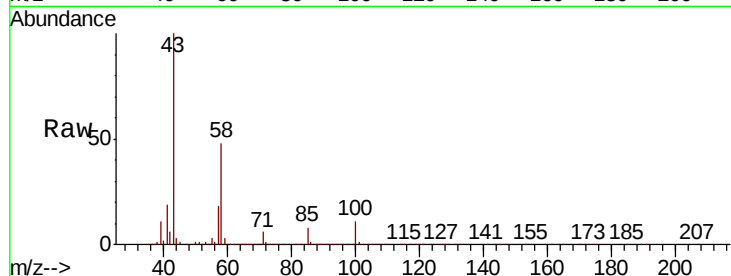




#49
2-Hexanone
Concen: 51.538 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW010089.D
Acq: 22 Apr 2019 19:25

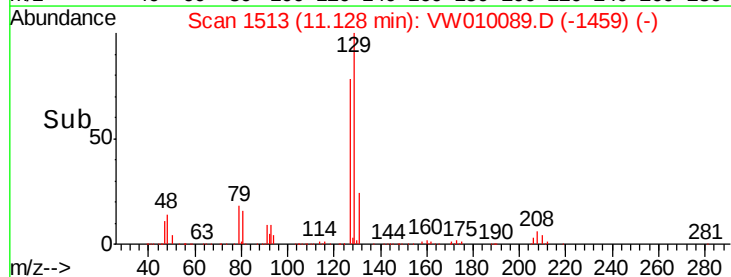
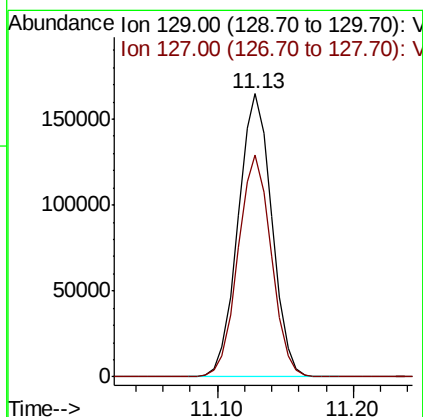
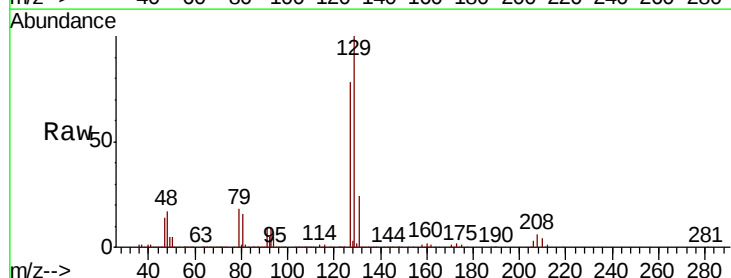
Instrument :
MSVOA_W
ClientSampled :
VSTD02510

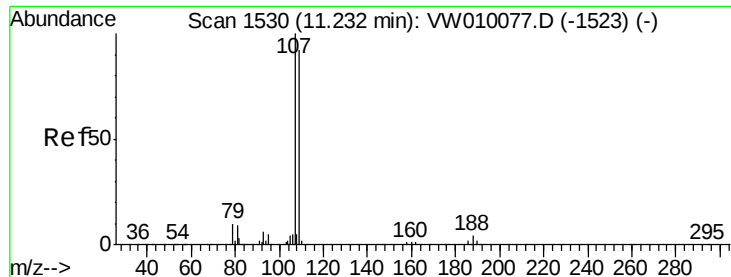
Tgt Ion: 43 Resp: 374083
Ion Ratio Lower Upper
43 100
58 51.1 39.8 59.8
57 18.2 14.1 21.1
100 11.1 8.4 12.6



#50
Dibromochloromethane
Concen: 24.802 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW010089.D
Acq: 22 Apr 2019 19:25

Tgt Ion: 129 Resp: 284832
Ion Ratio Lower Upper
129 100
127 78.3 53.5 99.3





#51

1,2-Dibromoethane

Concen: 24.844 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.01 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

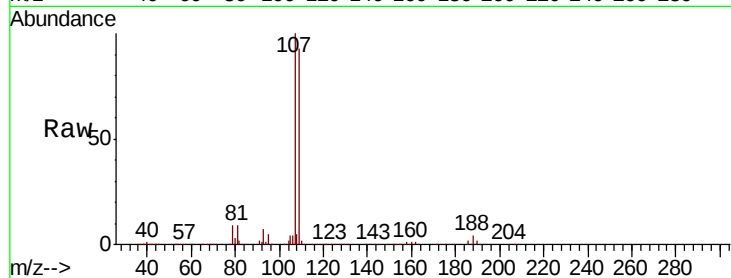
Tgt Ion:107 Resp: 235282

Ion Ratio Lower Upper

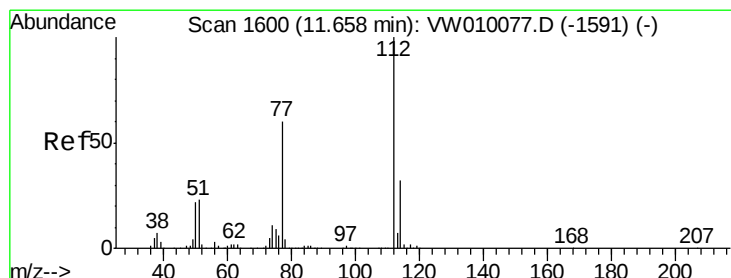
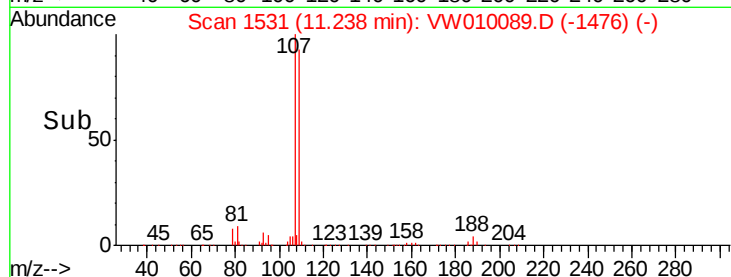
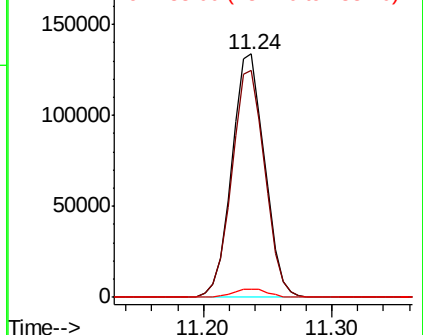
107 100

109 93.3 66.4 123.4

188 3.6 2.7 4.1



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: 25.569 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

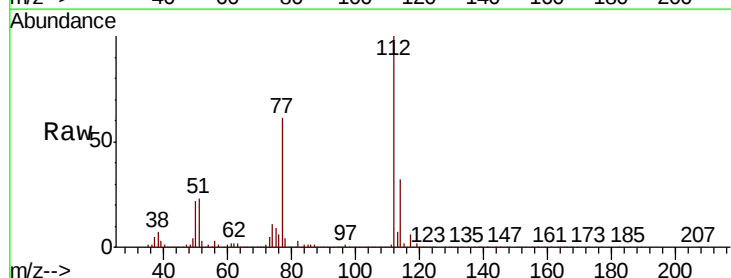
Tgt Ion:112 Resp: 830265

Ion Ratio Lower Upper

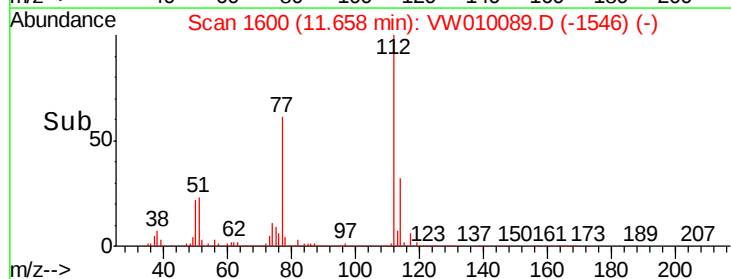
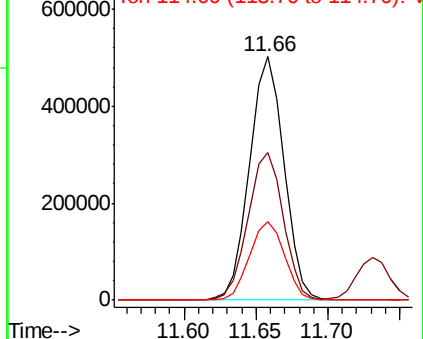
112 100

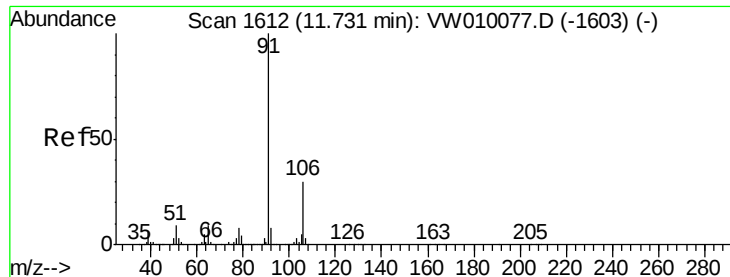
77 60.9 50.2 75.4

114 32.3 22.7 42.3



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

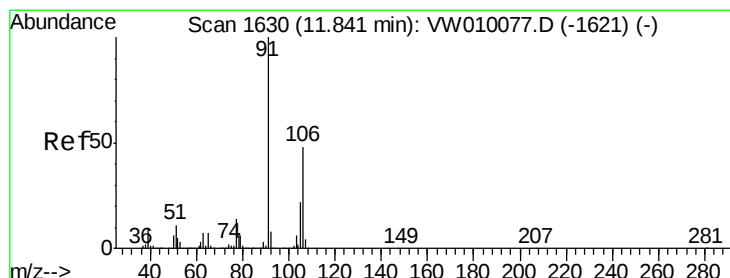
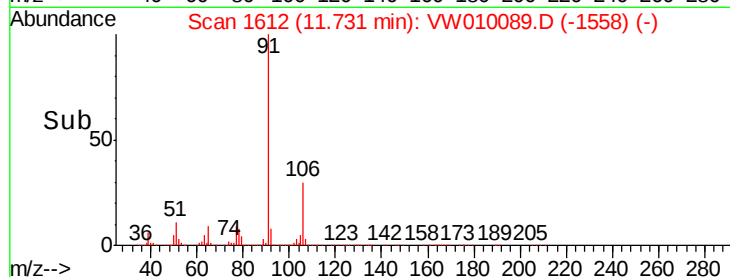
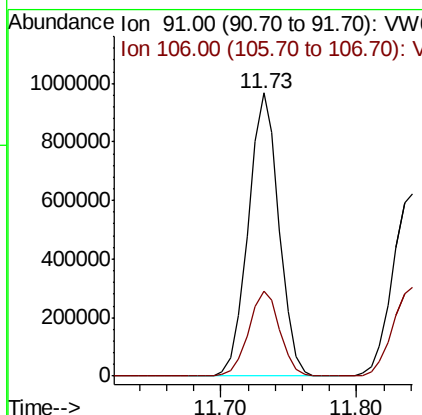
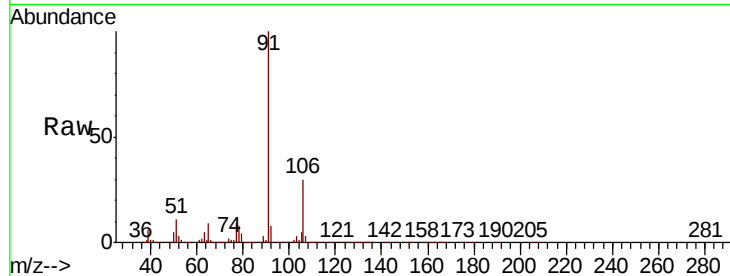




#53
Ethylbenzene
Concen: 27.457 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW010089.D
Acq: 22 Apr 2019 19:25

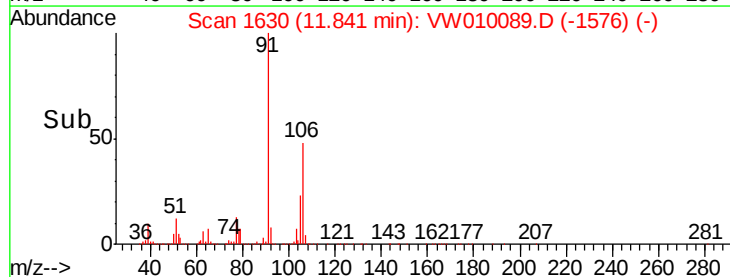
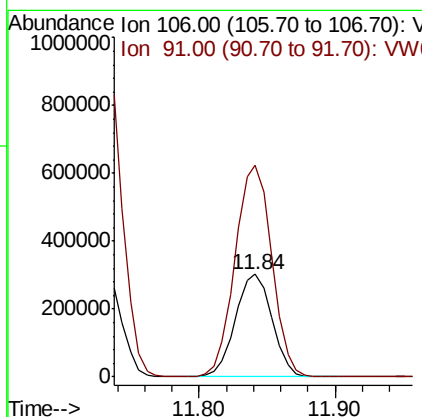
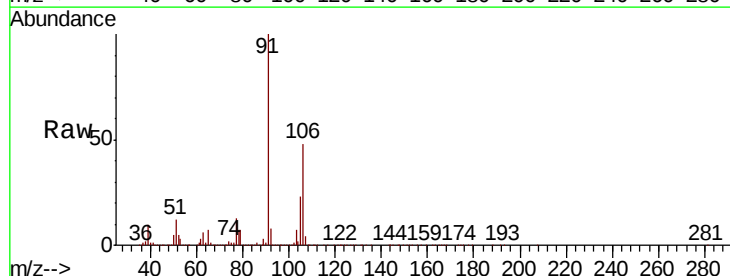
Instrument :
MSVOA_W
ClientSampleId :
VSTD02510

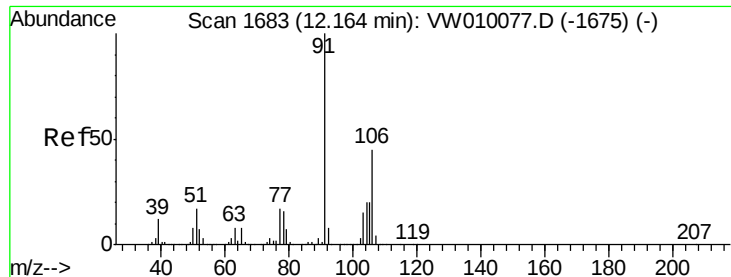
Tgt Ion: 91 Resp: 1527177
Ion Ratio Lower Upper
91 100
106 29.8 21.8 40.4



#54
m,p-Xylene
Concen: 27.925 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW010089.D
Acq: 22 Apr 2019 19:25

Tgt Ion: 106 Resp: 568128
Ion Ratio Lower Upper
106 100
91 206.7 143.4 266.2





#55

o-xylene

Concen: 28.006 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

Instrument :

MSVOA_W

ClientSampled :

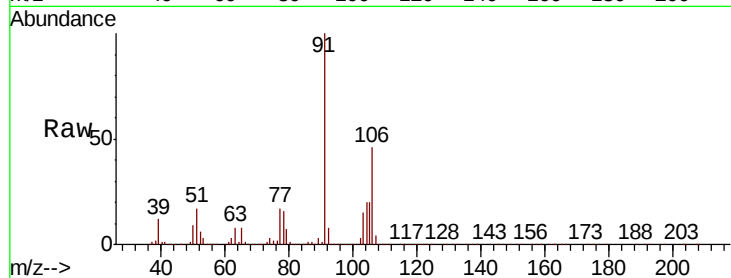
VSTD02510

Tgt Ion:106 Resp: 546484

Ion Ratio Lower Upper

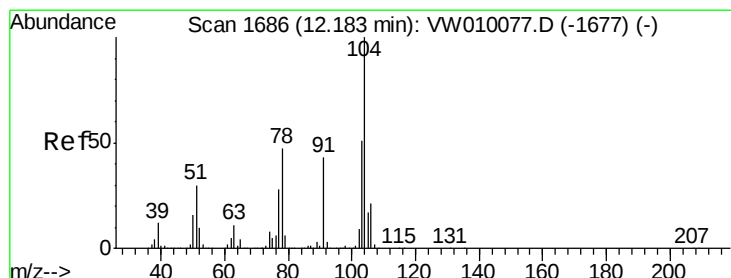
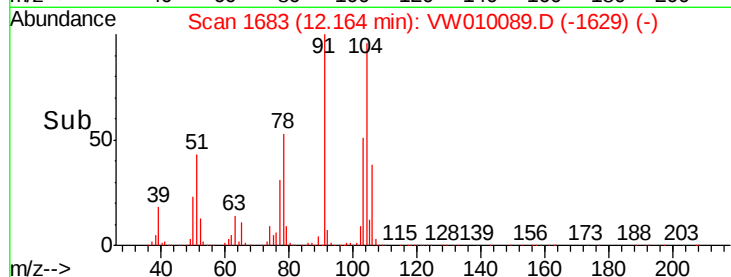
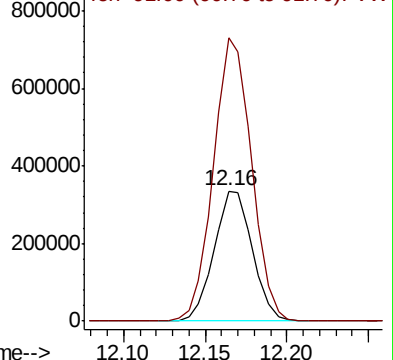
106 100

91 217.2 152.2 282.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 27.351 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW010089.D

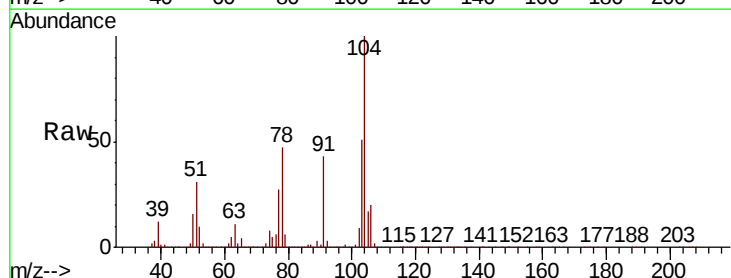
Acq: 22 Apr 2019 19:25

Tgt Ion:104 Resp: 934289

Ion Ratio Lower Upper

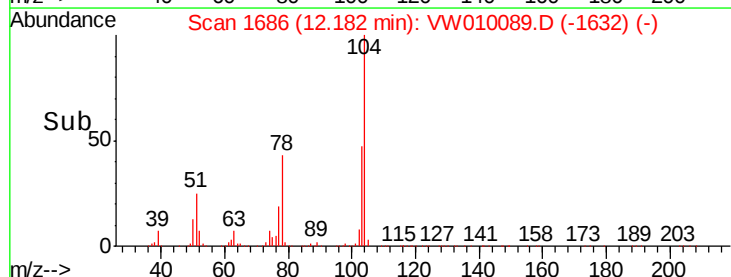
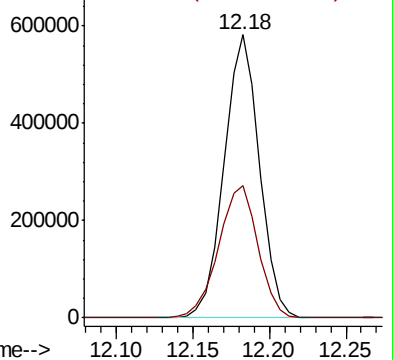
104 100

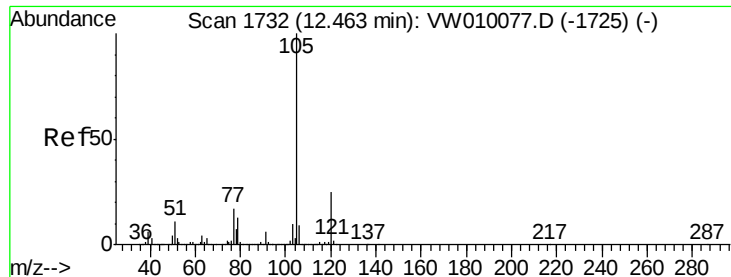
78 46.7 32.7 60.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 28.782 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

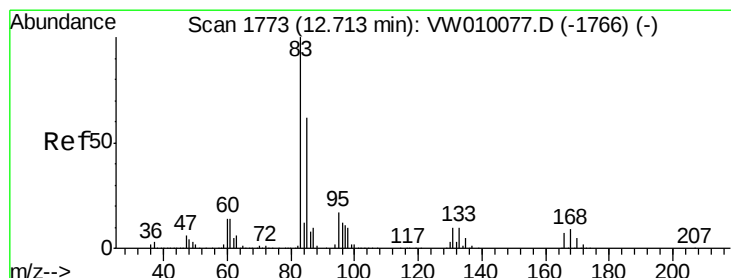
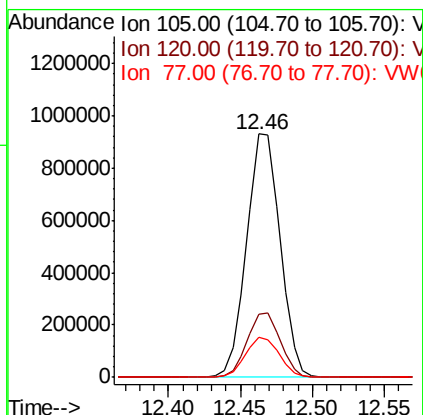
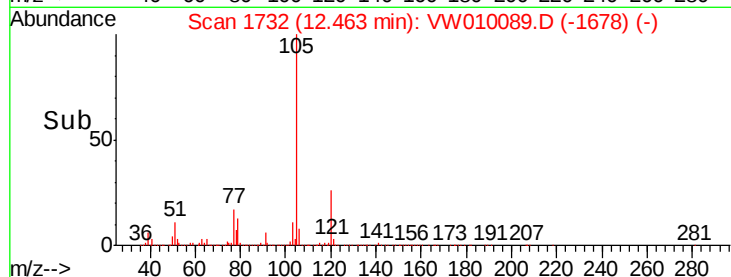
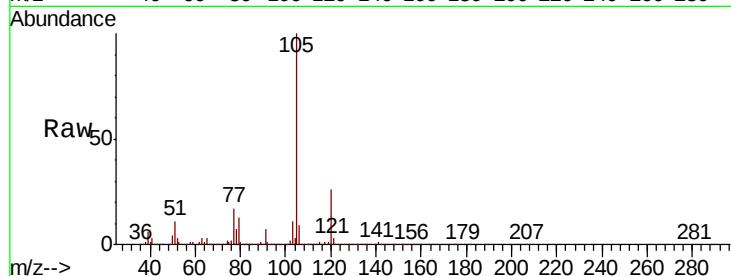
Tgt Ion:105 Resp: 1495910

Ion Ratio Lower Upper

105 100

120 26.3 20.6 30.8

77 16.4 13.4 20.2



#58

1,1,2,2-Tetrachloroethane

Concen: 24.018 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. 0.01 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

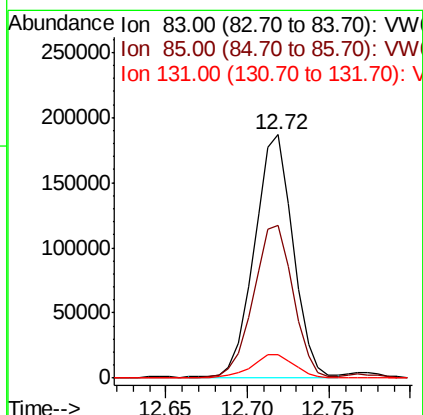
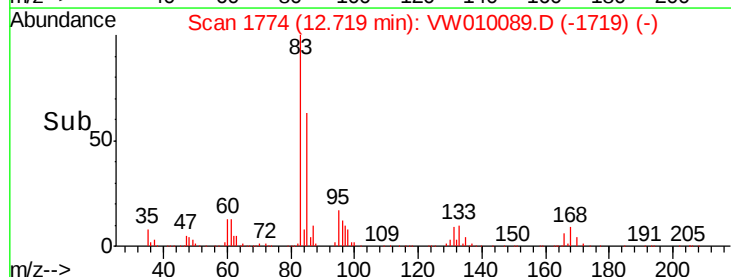
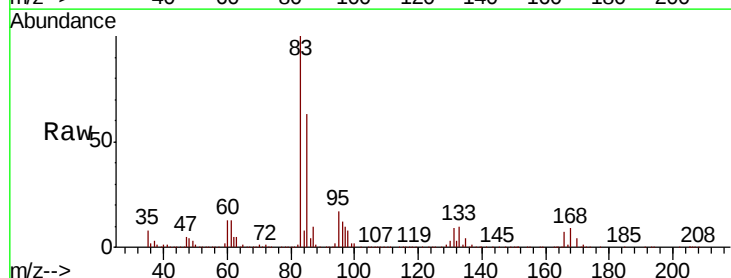
Tgt Ion: 83 Resp: 305687

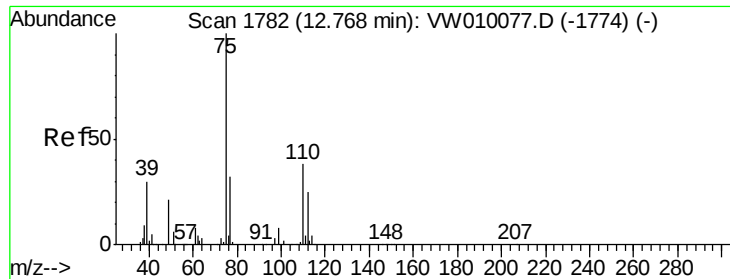
Ion Ratio Lower Upper

83 100

85 62.6 44.1 81.9

131 9.4 8.3 12.5

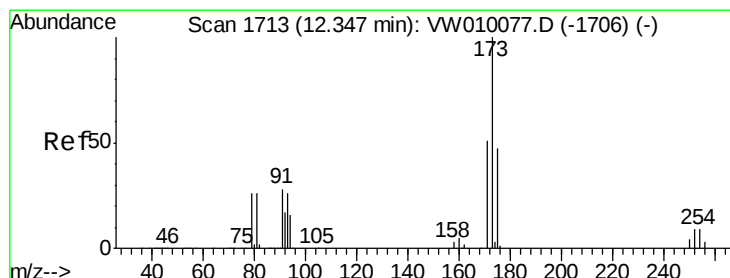
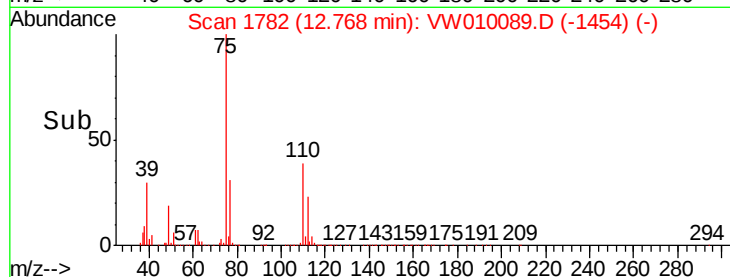
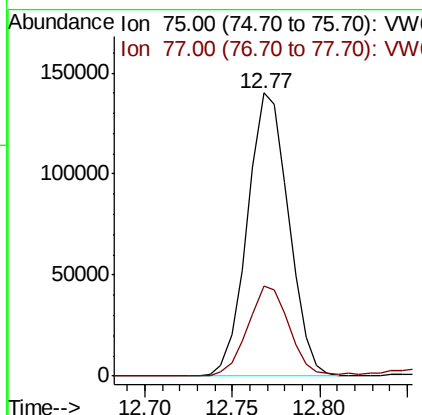
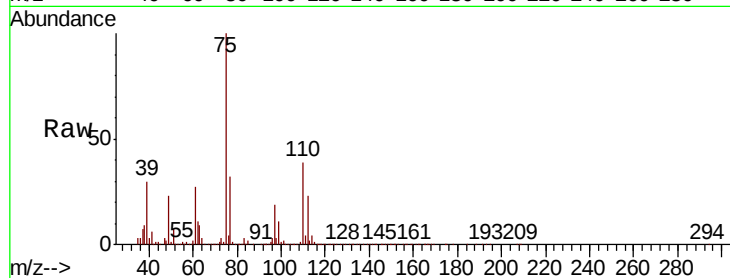




#59
 1,2,3-Trichloropropane
 Concen: 24.176 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. -0.00 min
 Lab File: VW010089.D
 Acq: 22 Apr 2019 19:25

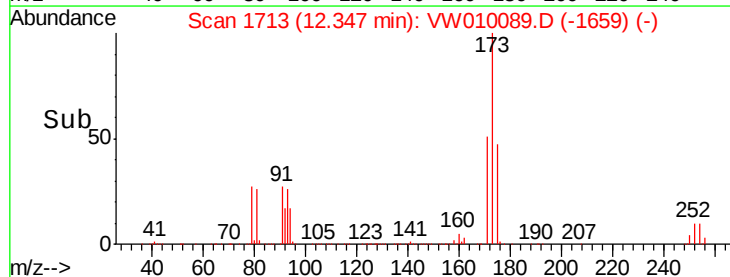
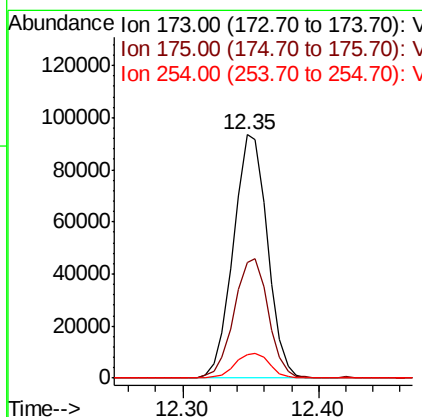
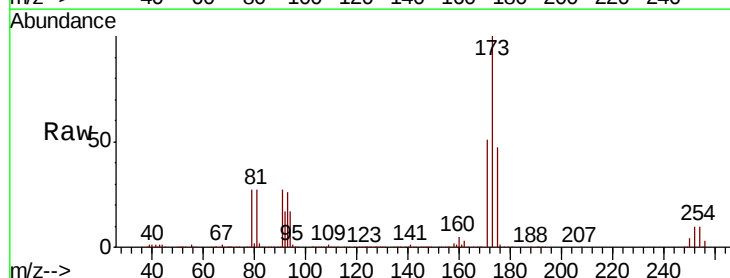
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

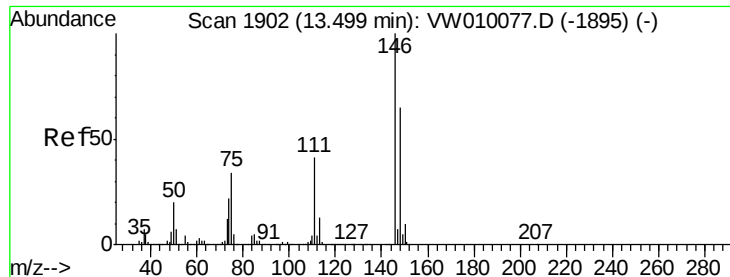
Tgt Ion: 75 Resp: 230268
 Ion Ratio Lower Upper
 75 100
 77 31.1 25.8 38.6



#62
 Bromoform
 Concen: 24.135 ug/L
 RT: 12.35 min Scan# 1713
 Delta R.T. -0.00 min
 Lab File: VW010089.D
 Acq: 22 Apr 2019 19:25

Tgt Ion: 173 Resp: 163795
 Ion Ratio Lower Upper
 173 100
 175 49.2 38.4 57.6
 254 10.2 7.7 11.5

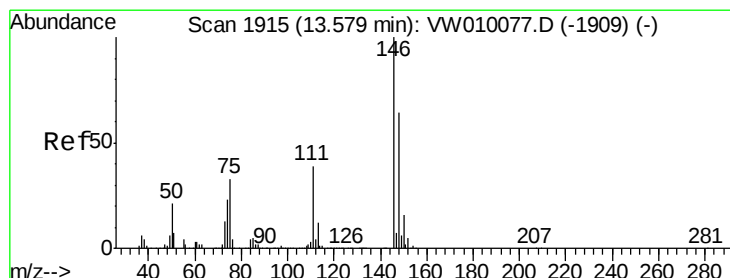
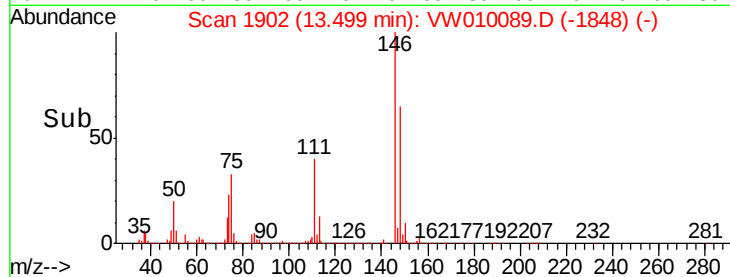
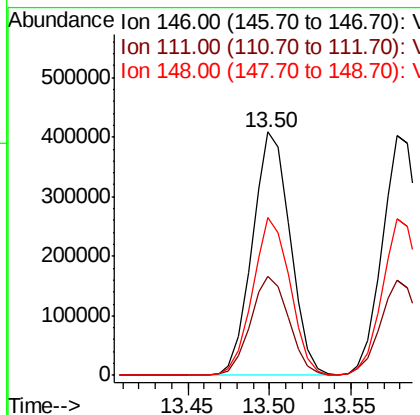
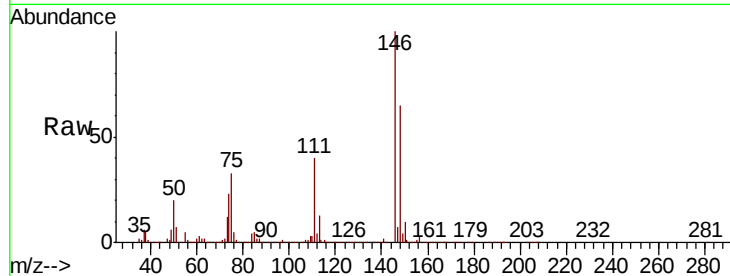




#63
 1,3-Dichlorobenzene
 Concen: 28.230 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW010089.D
 Acq: 22 Apr 2019 19:25

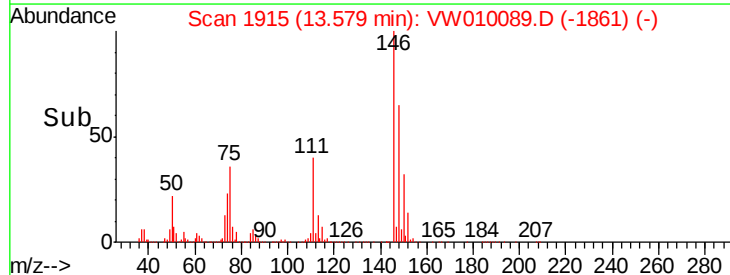
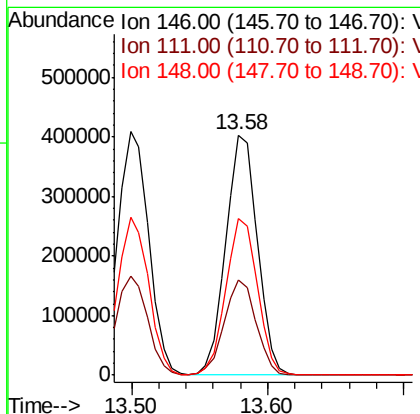
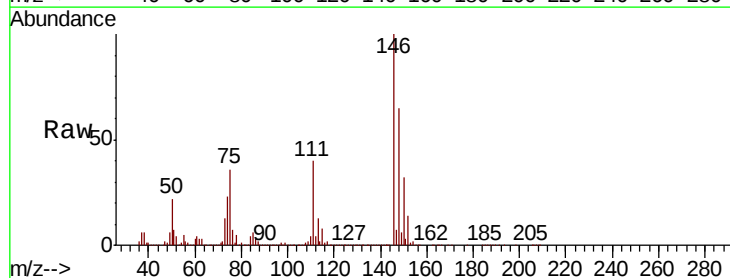
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

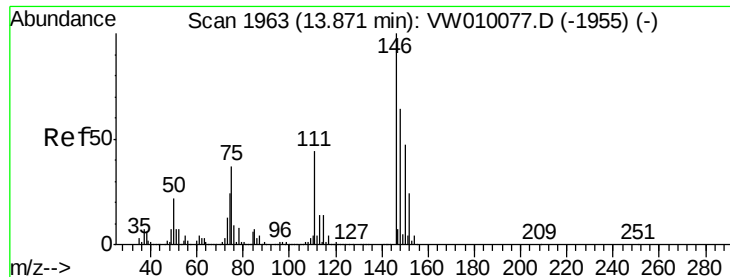
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	29.3	54.3
148	64.7	44.1	81.9



#64
 1,4-Dichlorobenzene
 Concen: 25.964 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW010089.D
 Acq: 22 Apr 2019 19:25

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	28.0	52.0
148	65.3	44.1	81.9

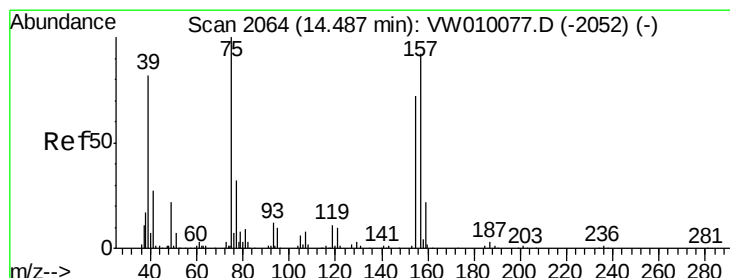
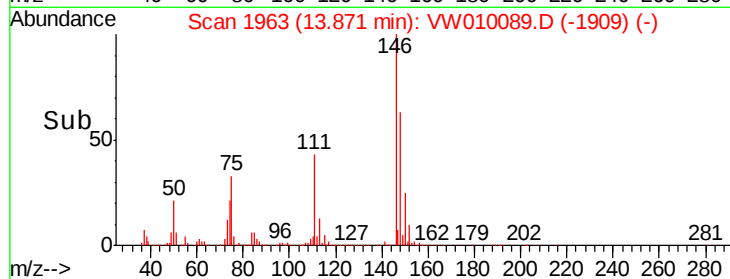
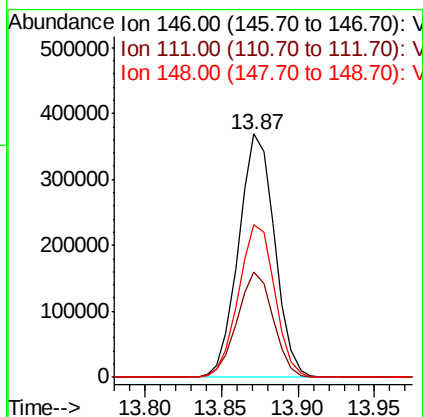
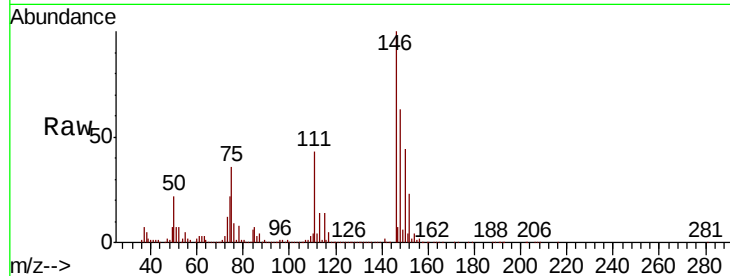




#65
 1,2-Dichlorobenzene
 Concen: 26.285 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW010089.D
 Acq: 22 Apr 2019 19:25

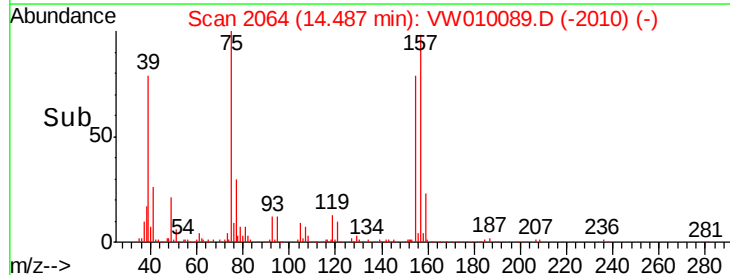
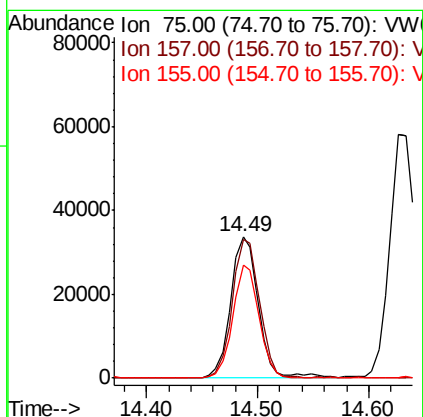
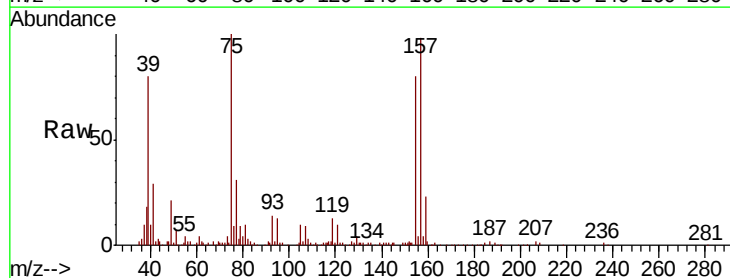
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

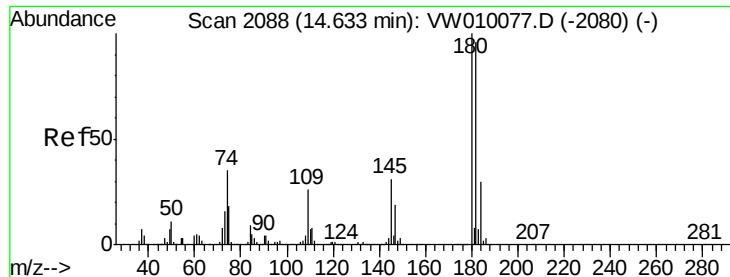
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.2	35.0	52.6
148	62.9	50.4	75.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 25.243 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW010089.D
 Acq: 22 Apr 2019 19:25

Tgt Ion	Ratio	Lower	Upper
75	100		
157	98.0	73.3	109.9
155	79.6	58.6	88.0

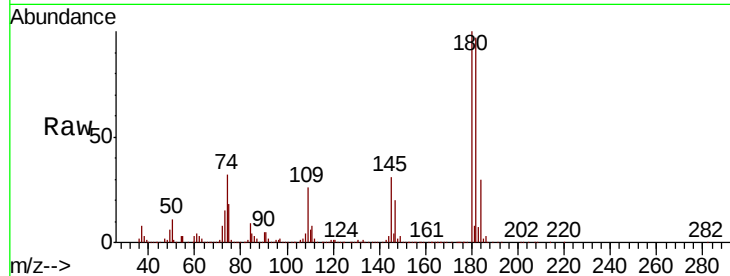




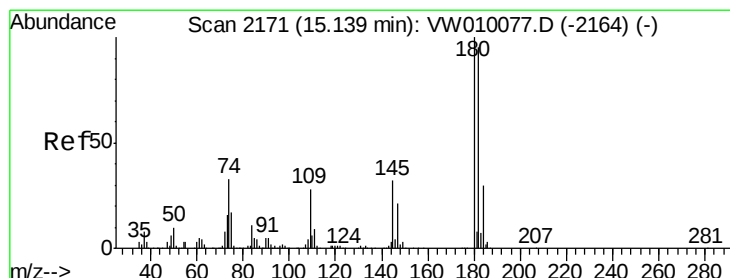
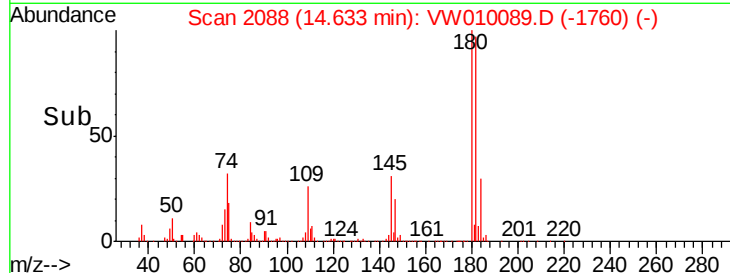
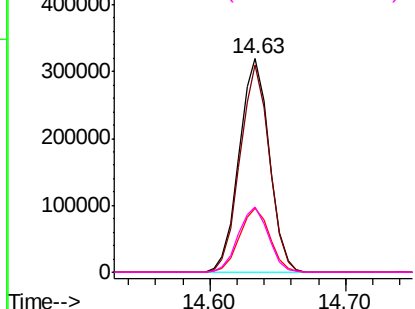
#67
 1,3,5-Trichlorobenzene
 Concen: 28.818 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. -0.00 min
 Lab File: VW010089.D
 Acq: 22 Apr 2019 19:25

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

Tgt Ion:	180	Resp:	492873
Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.8	115.2
184	30.1	24.0	36.0
145	30.5	24.4	36.6

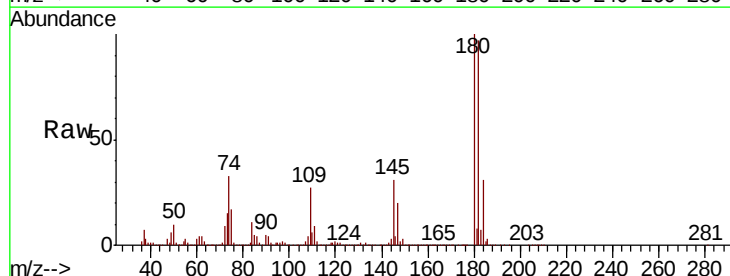


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

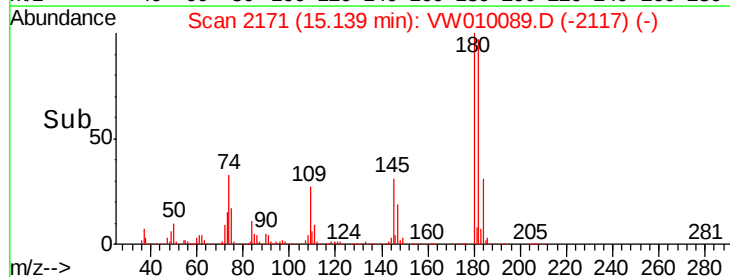
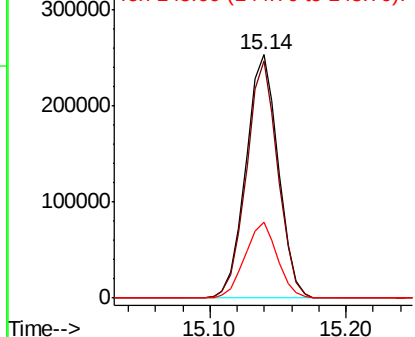


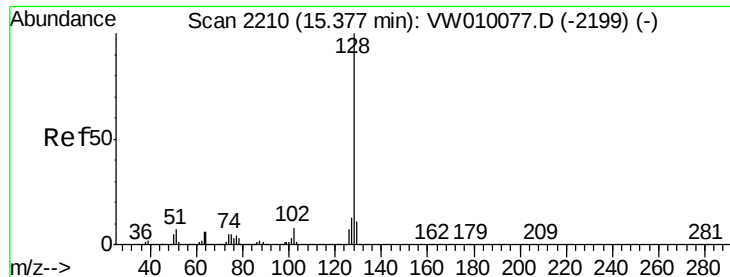
#68
 1,2,4-trichlorobenzene
 Concen: 30.122 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VW010089.D
 Acq: 22 Apr 2019 19:25

Tgt Ion:	180	Resp:	422029
Ion	Ratio	Lower	Upper
180	100		
182	94.6	75.4	113.0
145	30.9	25.0	37.4



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: 30.540 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.01 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

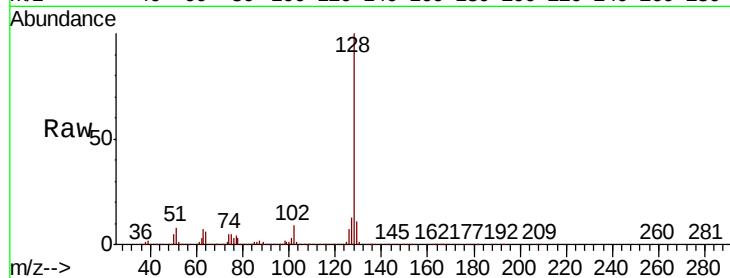
Tgt Ion:128 Resp: 918351

Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

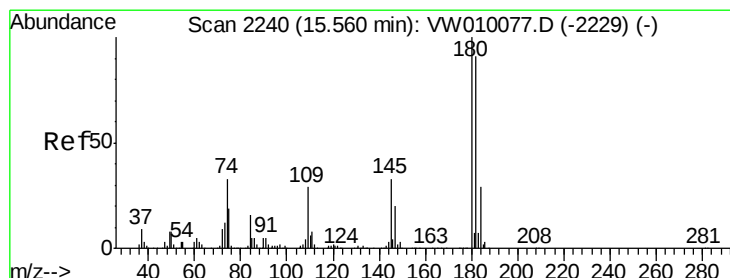
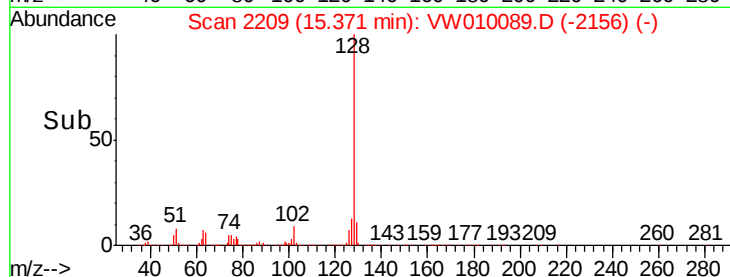
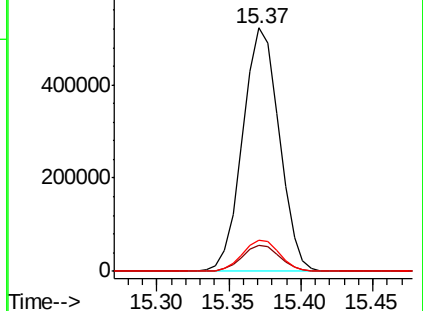
127 13.2 10.6 16.0



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: 27.970 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW010089.D

Acq: 22 Apr 2019 19:25

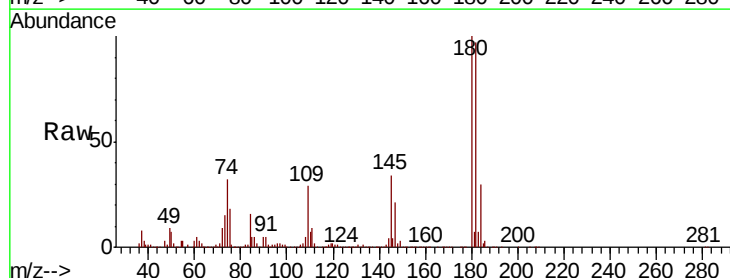
Tgt Ion:180 Resp: 373903

Ion Ratio Lower Upper

180 100

182 94.4 76.0 114.0

145 33.1 26.3 39.5



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

