

Data File : VW011133.D
Acq On : 03 Jul 2019 09:21
Operator : SY/VA
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02515

Quant Time: Jul 03 23:17:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070219S.M
Quant Title : VOC Analysis
QLast Update : Wed Jul 03 05:51:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	381315	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	342602	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	166981	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	136340	23.42	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	93.68%
7) Chloroethane-d5	2.89	69	95197	23.30	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	93.20%
10) 1,1-Dichloroethene-d2	4.02	63	281829	22.86	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	91.44%
20) 2-Butanone-d5	7.07	46	117270	51.13	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	102.26%
24) Chloroform-d	7.65	84	236956	22.67	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	90.68%
26) 1,2-Dichloroethane-d4	8.31	65	148500	23.07	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	92.28%
29) Benzene-d6	8.27	84	482898	22.88	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	91.52%
33) 1,2-Dichloropropane-d6	9.27	67	156723	22.80	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	91.20%
37) Toluene-d8	10.32	98	430377	22.88	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	91.52%
38) trans-1,3-Dichloropropene-	10.58	79	67645	23.15	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	92.60%
39) 2-Hexanone-d5	10.92	63	80434	51.03	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	102.06%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	139033	24.46	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	97.84%
61) 1,2-Dichlorobenzene-d4	13.85	152	144630	22.56	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	90.24%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	116573	24.857 ug/L	96
3) Chloromethane	2.21	50	111802	21.958 ug/L	100
5) Vinyl chloride	2.36	62	154938	23.314 ug/L	99
6) Bromomethane	2.78	94	71915	23.130 ug/L	99
8) Chloroethane	2.92	64	80252	23.892 ug/L	99
9) Trichlorofluoromethane	3.25	101	57234	25.154 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	118896	23.451 ug/L	99
12) 1,1-Dichloroethene	4.04	96	115658	23.081 ug/L	90
13) Acetone	4.12	43	108897	48.609 ug/L	98
14) Carbon disulfide	4.38	76	324265	22.621 ug/L	100
15) Methyl Acetate	4.67	43	92447	25.360 ug/L	100
16) Methylene chloride	4.92	84	121677	21.715 ug/L	95
17) Methyl tert-butyl Ether	5.42	73	183965	23.673 ug/L	100
18) trans-1,2-Dichloroethene	5.42	96	115017	22.714 ug/L	98
19) 1,1-Dichloroethane	6.21	63	239367	23.285 ug/L	98
21) 2-Butanone	7.17	43	142273	49.195 ug/L	99
22) cis-1,2-Dichloroethene	7.17	96	125530	22.902 ug/L	99

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	53664	23.333	ug/L	96
25) Chloroform	7.67	83	222803	22.882	ug/L	100
27) 1,2-Dichloroethane	8.40	62	172886	23.227	ug/L	99
30) Cyclohexane	7.95	56	242411	23.272	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	167400	23.542	ug/L	99
32) Carbon tetrachloride	8.07	117	157311	23.590	ug/L	99
34) Benzene	8.32	78	500715	23.385	ug/L	100
35) Trichloroethene	9.09	95	124620	23.063	ug/L	100
36) Methylcyclohexane	9.34	83	228536	23.503	ug/L	98
40) 1,2-Dichloropropane	9.37	63	138445	23.596	ug/L	99
41) Bromodichloromethane	9.64	83	160594	23.741	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	207054	23.917	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	275343	50.623	ug/L	99
44) Toluene	10.38	91	521756	23.542	ug/L	100
45) trans-1,3-Dichloropropene	10.60	75	173688	24.247	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	95455	23.493	ug/L	98
47) Tetrachloroethene	10.86	164	94256	23.081	ug/L	97
49) 2-Hexanone	10.97	43	210693	53.218	ug/L	99
50) Dibromochloromethane	11.13	129	103158	23.842	ug/L	95
51) 1,2-Dibromoethane	11.23	107	93705	23.884	ug/L	98
52) Chlorobenzene	11.66	112	314019	23.192	ug/L	100
53) Ethylbenzene	11.73	91	586865	23.345	ug/L	98
54) m,p-Xylene	11.84	106	214180	23.466	ug/L	100
55) o-xylene	12.16	106	205353	23.651	ug/L	98
56) Styrene	12.18	104	357862	24.026	ug/L	100
57) Isopropylbenzene	12.46	105	562525	23.734	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	134429	24.870	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	103558	24.947	ug/L	99
62) Bromoform	12.35	173	59779	24.021	ug/L	100
63) 1,3-Dichlorobenzene	13.50	146	237703	23.138	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	245189	23.314	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	225588	23.590	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	23729	25.274	ug/L	97
67) 1,3,5-Trichlorobenzene	14.63	180	186347	23.940	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	156160	23.947	ug/L	99
69) Naphthalene	15.37	128	355308	26.017	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	145949	24.462	ug/L	100

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

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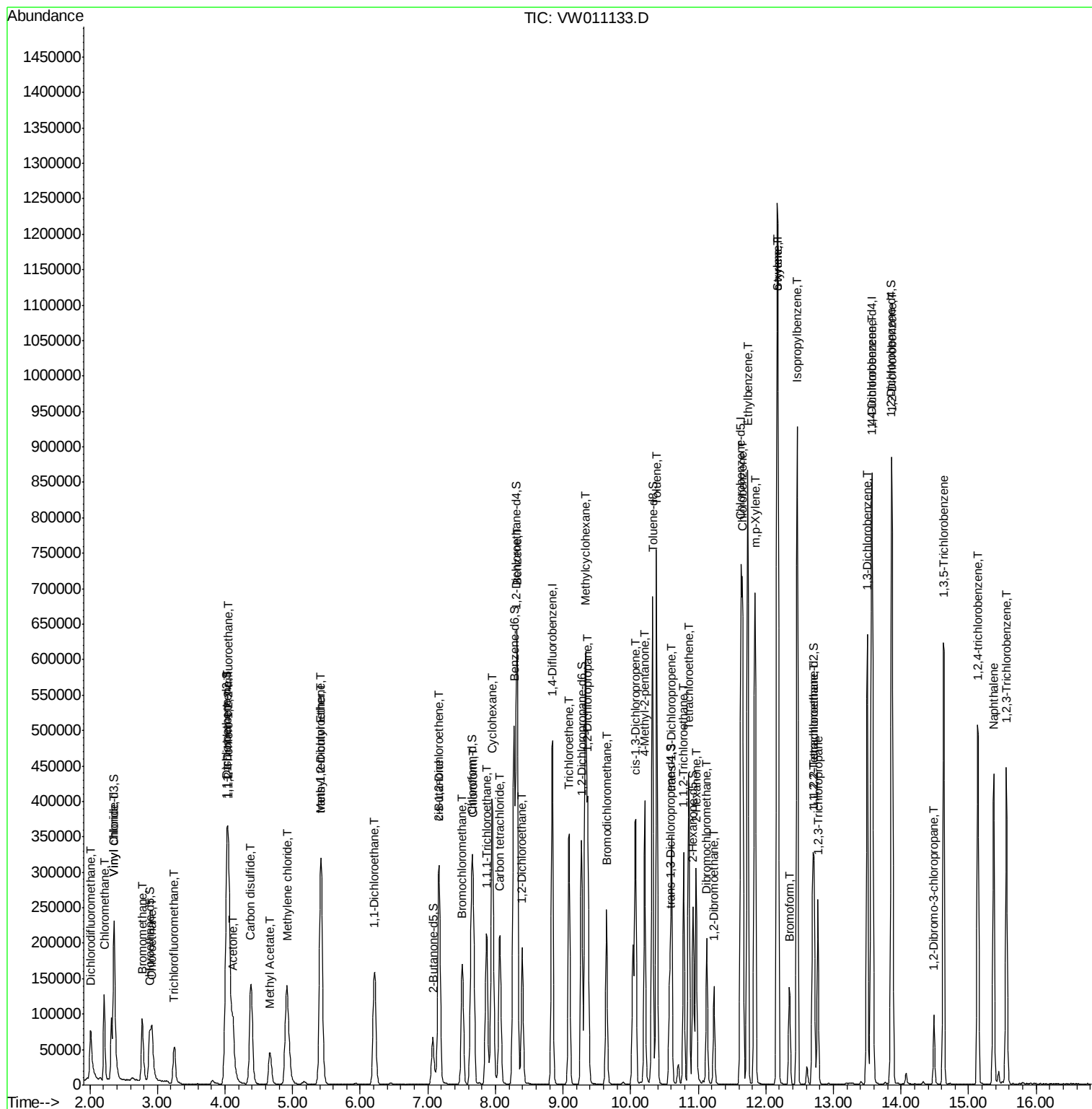
Quant Time: Jul 03 23:17:01 2019

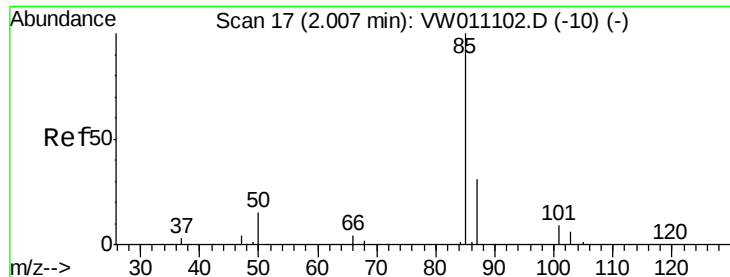
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070219S.M

Quant Title : VOC Analysis

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#2

Dichlorodifluoromethane

Concen: 24.857 ug/L

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW011133.D

Acq: 03 Jul 2019 09:21

Instrument :

MSVOA_W

ClientSampleId :

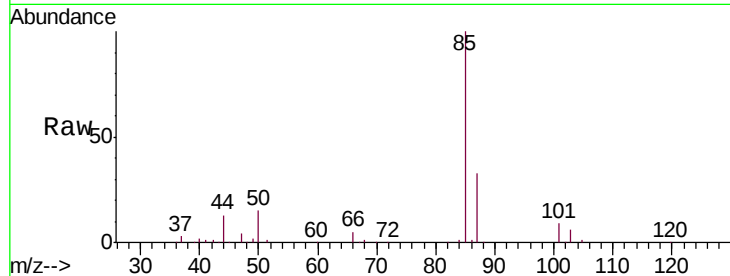
VSTD02515

Tgt Ion: 85 Resp: 116573

Ion Ratio Lower Upper

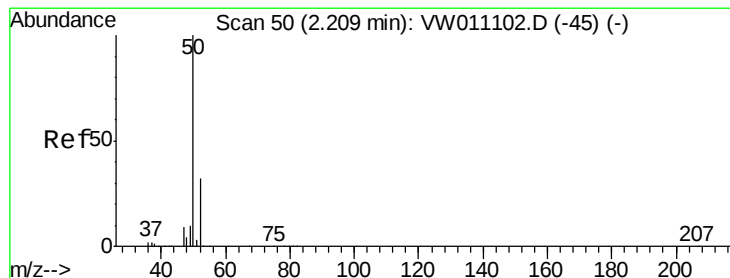
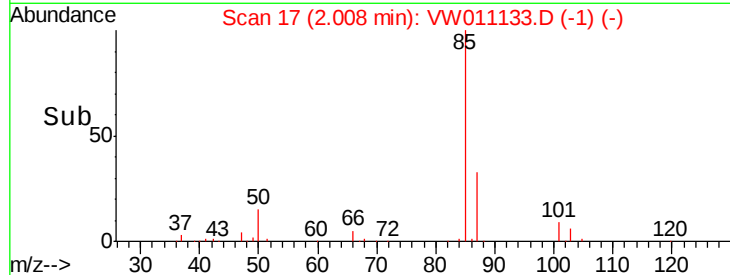
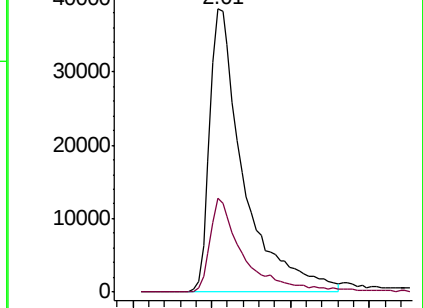
85 100

87 27.5 20.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 21.958 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW011133.D

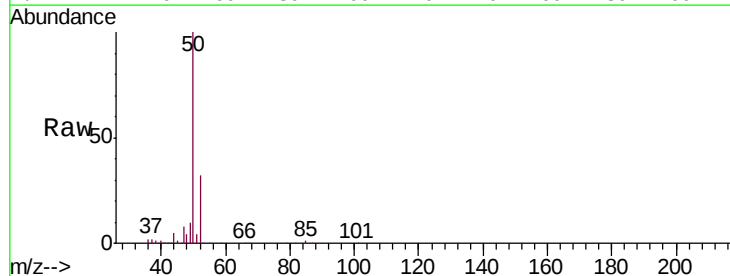
Acq: 03 Jul 2019 09:21

Tgt Ion: 50 Resp: 111802

Ion Ratio Lower Upper

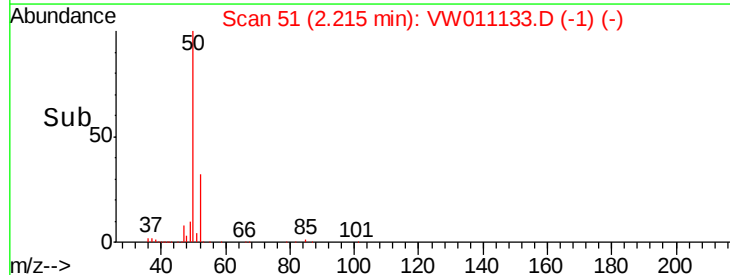
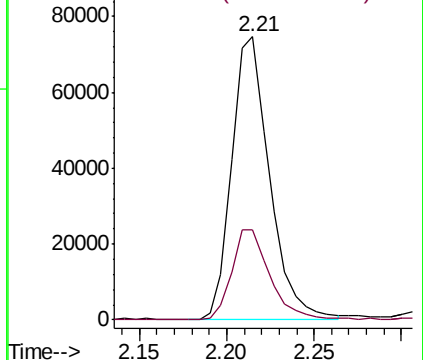
50 100

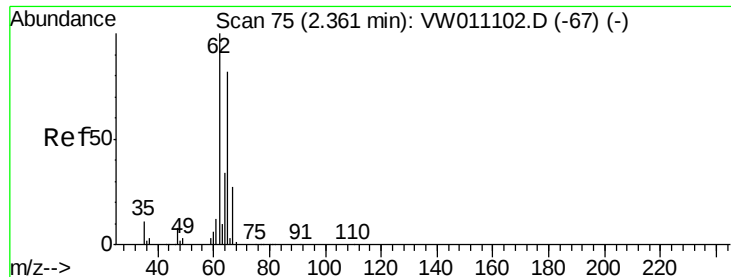
52 32.0 22.3 41.5



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 23.314 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW011133.D

Acq: 03 Jul 2019 09:21

Instrument :

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ClientSampleId :

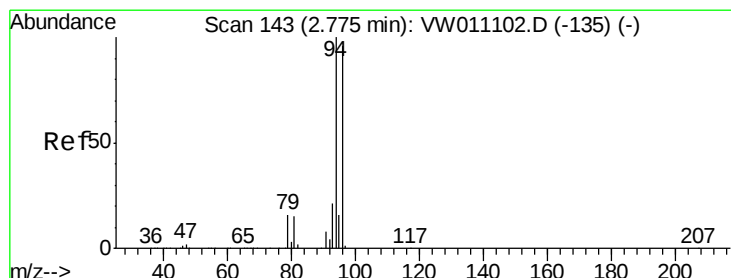
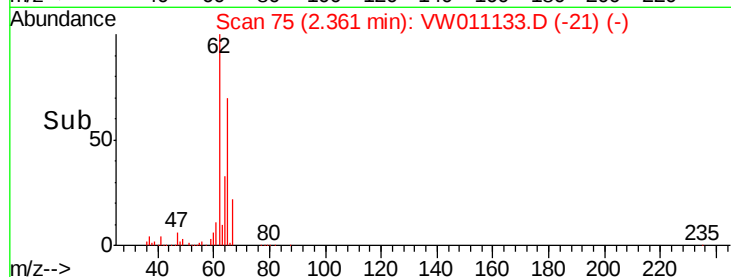
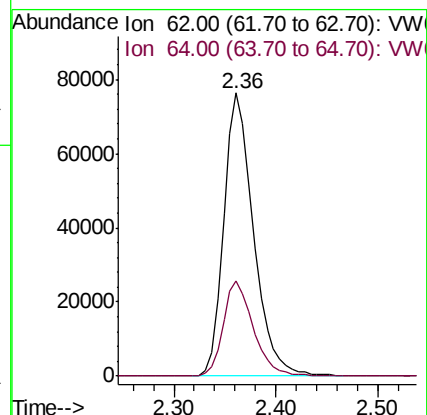
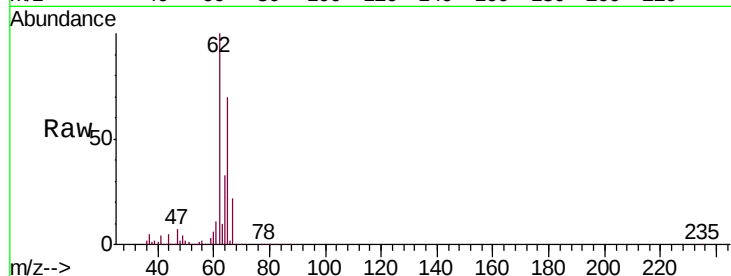
VSTD02515

Tgt Ion: 62 Resp: 154938

Ion Ratio Lower Upper

62 100

64 33.5 23.9 44.3



#6

Bromomethane

Concen: 23.130 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW011133.D

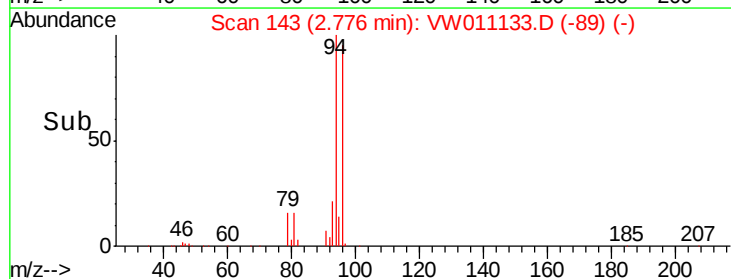
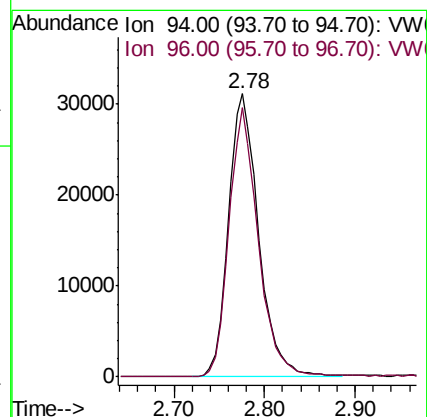
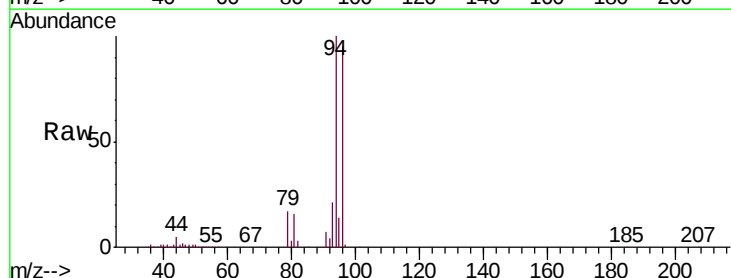
Acq: 03 Jul 2019 09:21

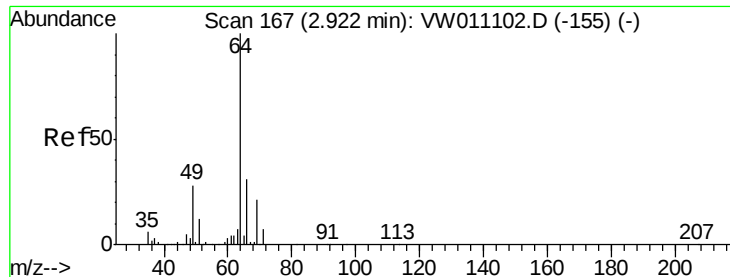
Tgt Ion: 94 Resp: 71915

Ion Ratio Lower Upper

94 100

96 92.6 9.3 177.3





#8

Chloroethane

Concen: 23.892 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.01 min

Lab File: VW011133.D

Acq: 03 Jul 2019 09:21

Instrument :

MSVOA_W

ClientSampleId :

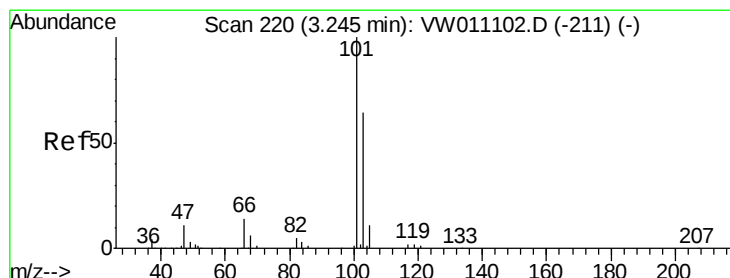
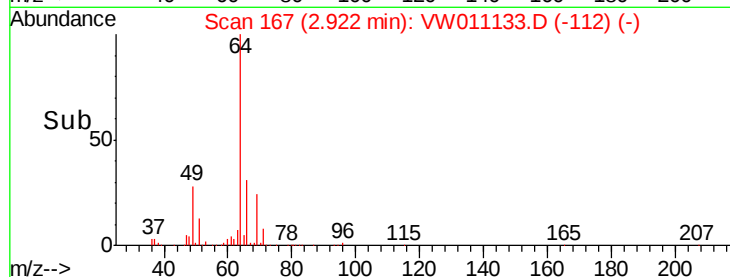
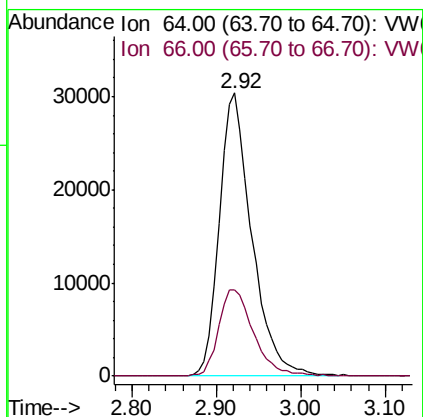
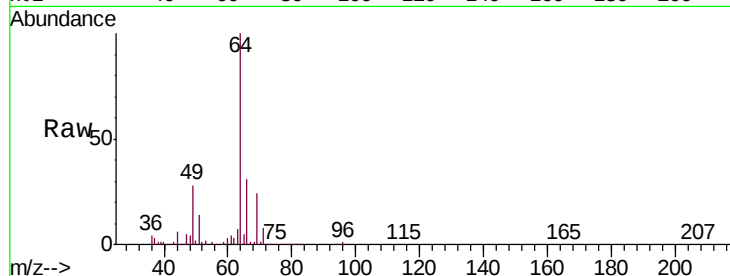
VSTD02515

Tgt Ion: 64 Resp: 80252

Ion Ratio Lower Upper

64 100

66 30.6 21.9 40.7



#9

Trichlorofluoromethane

Concen: 25.154 ug/L

RT: 3.25 min Scan# 221

Delta R.T. 0.01 min

Lab File: VW011133.D

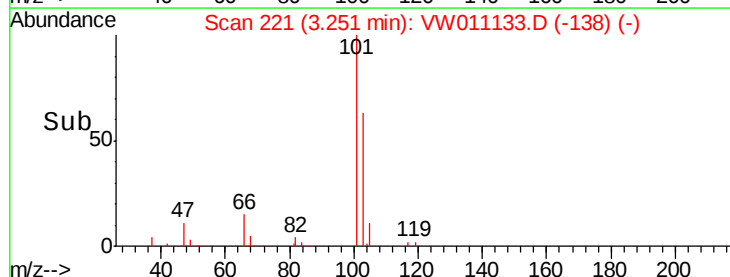
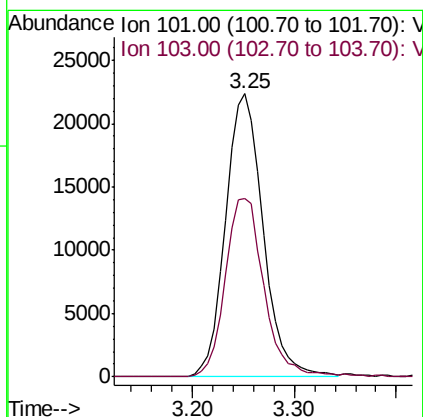
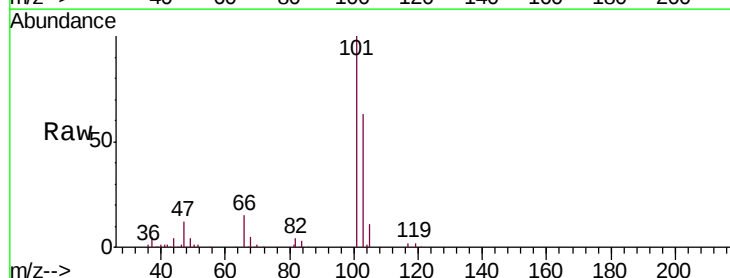
Acq: 03 Jul 2019 09:21

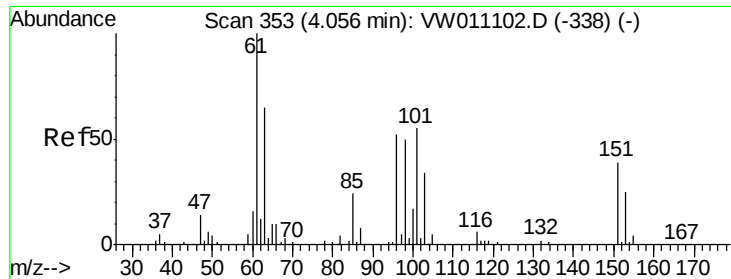
Tgt Ion: 101 Resp: 57234

Ion Ratio Lower Upper

101 100

103 64.5 44.6 82.8





#11

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

Concen: 23.451 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW011133.D

Acq: 03 Jul 2019 09:21

Instrument :

MSVOA_W

ClientSampleId :

VSTD02515

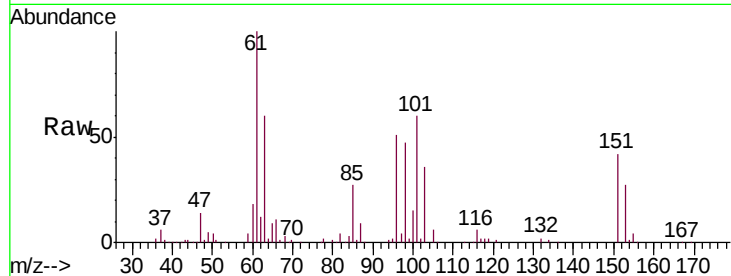
Tgt Ion: 101 Resp: 118896

Ion Ratio Lower Upper

101 100

85 43.2 33.8 50.8

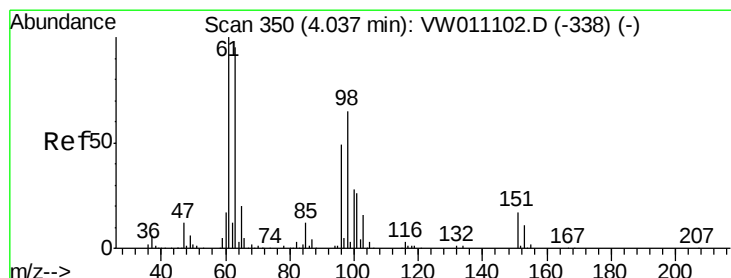
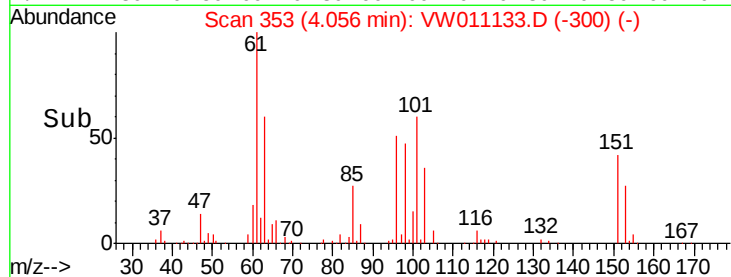
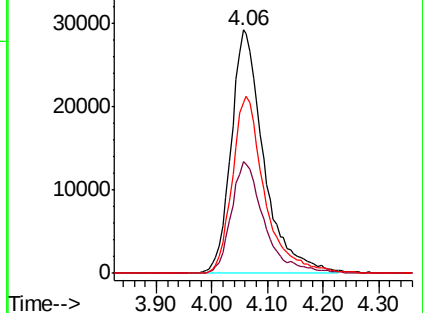
151 71.1 56.9 85.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 23.081 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.01 min

Lab File: VW011133.D

Acq: 03 Jul 2019 09:21

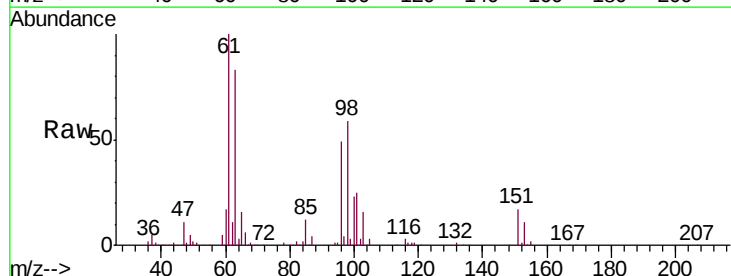
Tgt Ion: 96 Resp: 115658

Ion Ratio Lower Upper

96 100

61 204.9 142.2 264.0

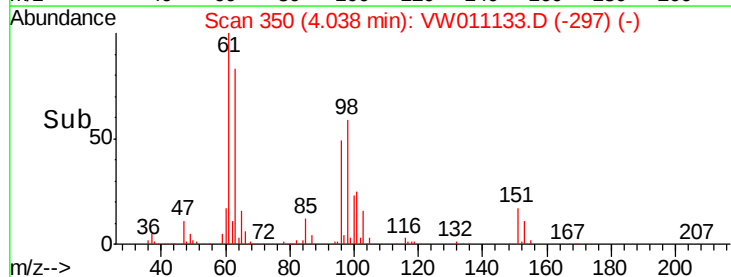
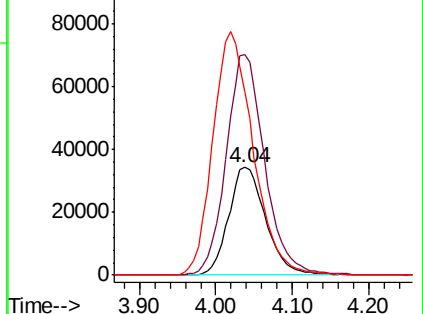
63 170.9 138.9 257.9

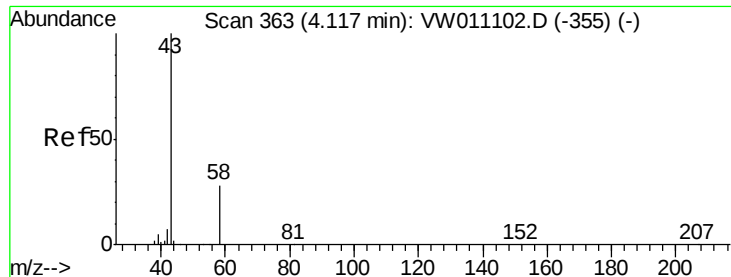


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 48.609 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

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Acq: 03 Jul 2019 09:21

Instrument :

MSVOA_W

ClientSampleId :

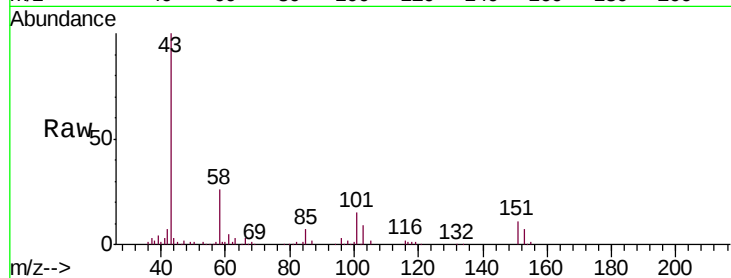
VSTD02515

Tgt Ion: 43 Resp: 108897

Ion Ratio Lower Upper

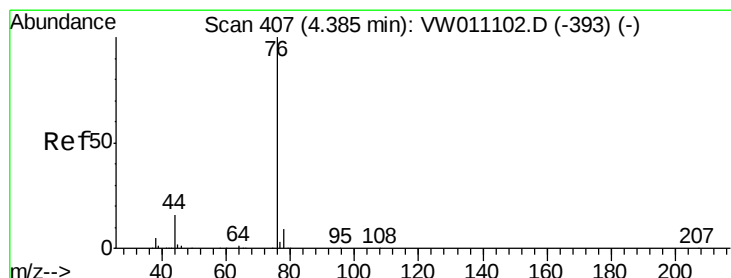
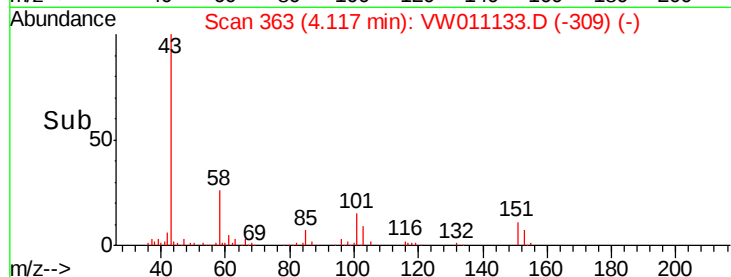
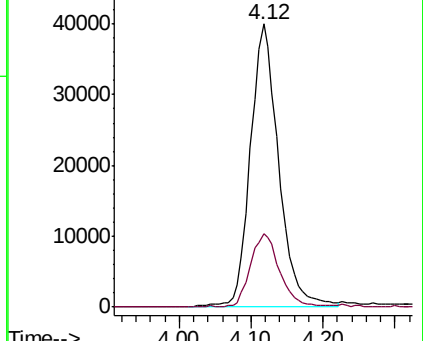
43 100

58 26.7 0.0 55.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 22.621 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW011133.D

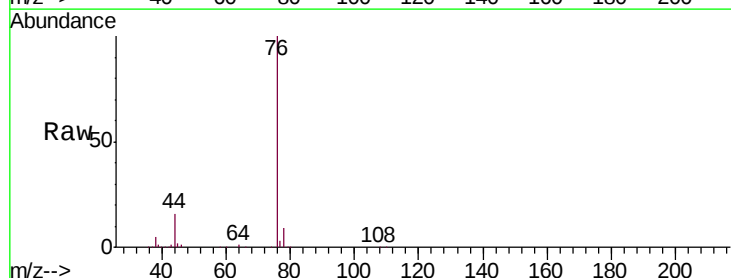
Acq: 03 Jul 2019 09:21

Tgt Ion: 76 Resp: 324265

Ion Ratio Lower Upper

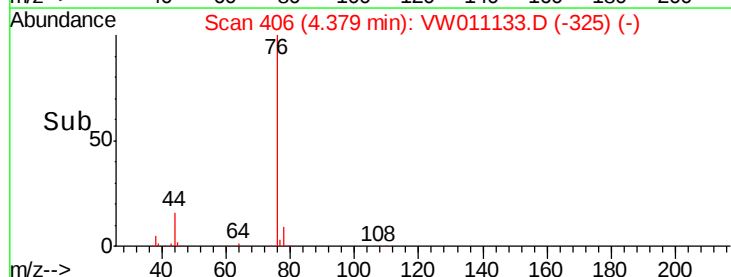
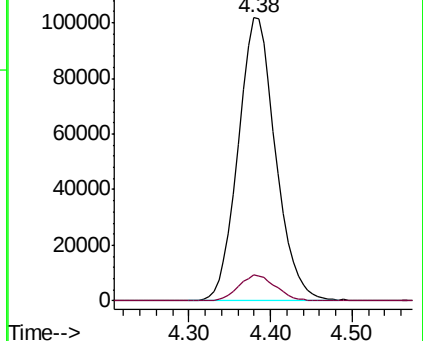
76 100

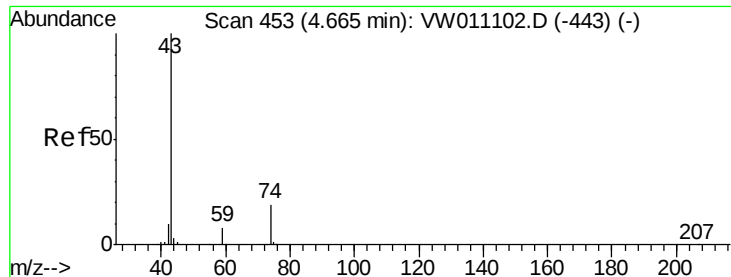
78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

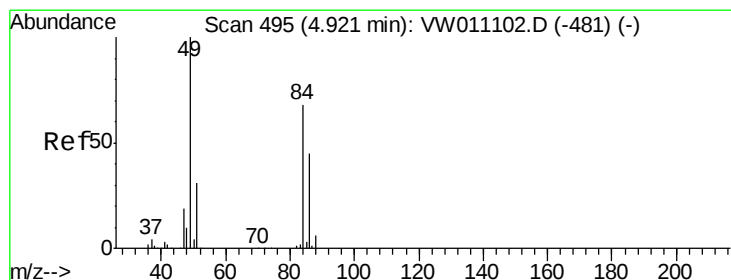
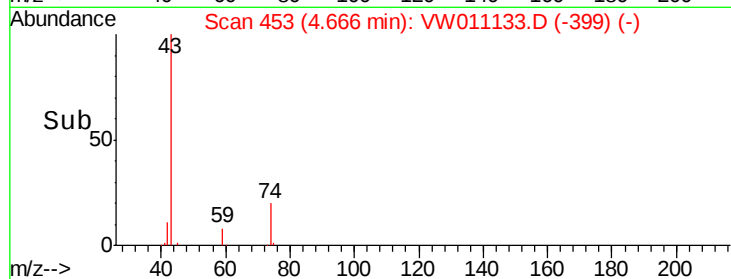
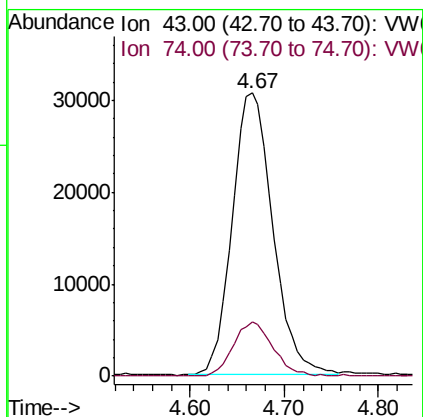
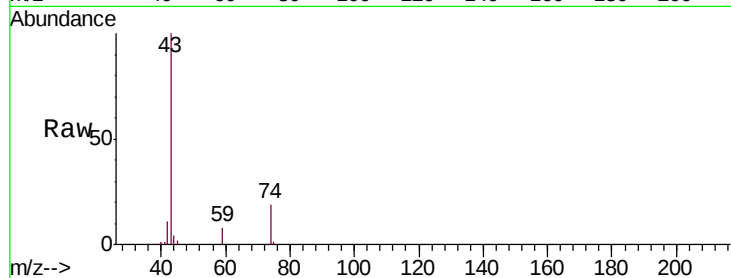




#15
Methyl Acetate
Concen: 25.360 ug/L
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW011133.D
Acq: 03 Jul 2019 09:21

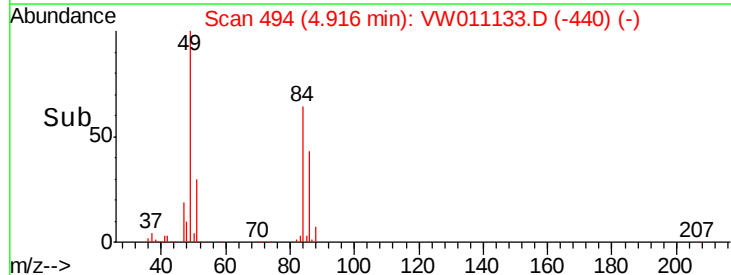
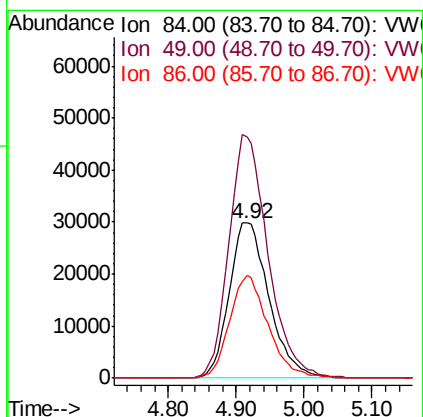
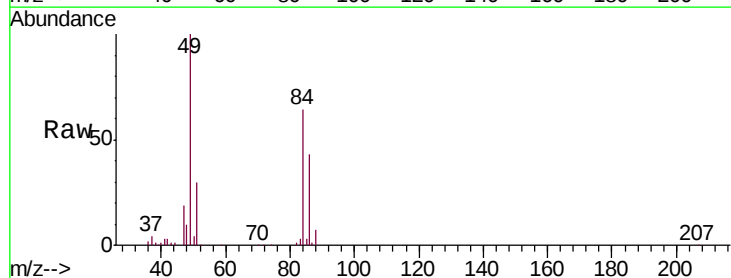
Instrument :
MSVOA_W
ClientSampleId :
VSTD02515

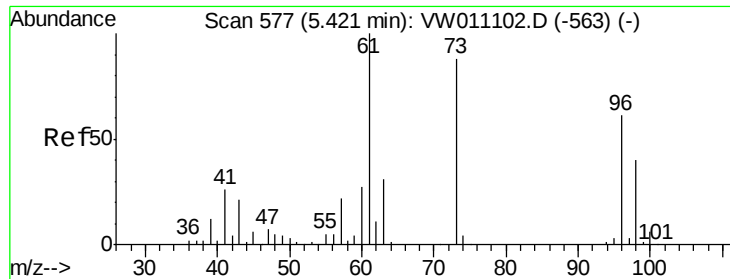
Tgt Ion: 43 Resp: 92447
Ion Ratio Lower Upper
43 100
74 18.8 15.1 22.7



#16
Methylene chloride
Concen: 21.715 ug/L
RT: 4.92 min Scan# 494
Delta R.T. -0.00 min
Lab File: VW011133.D
Acq: 03 Jul 2019 09:21

Tgt Ion: 84 Resp: 121677
Ion Ratio Lower Upper
84 100
49 155.8 102.5 190.3
86 66.4 46.4 86.2

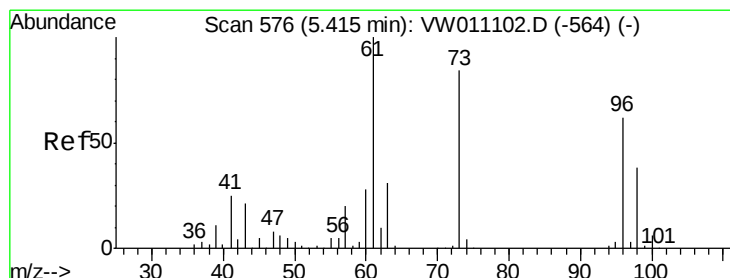
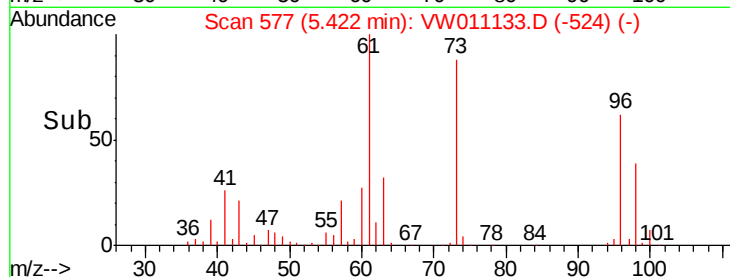
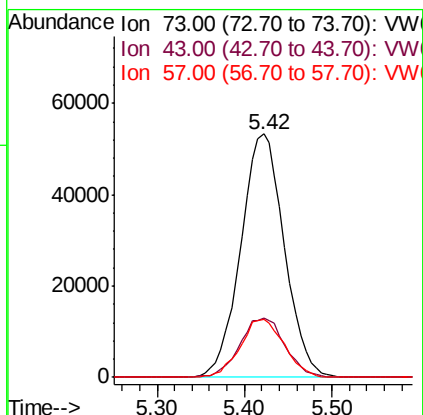
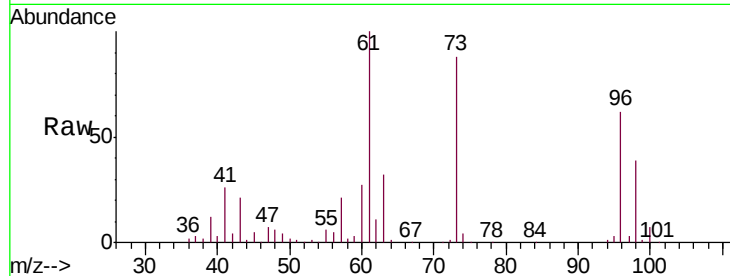




#17
Methyl tert-butyl Ether
Concen: 23.673 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.01 min
Lab File: VW011133.D
Acq: 03 Jul 2019 09:21

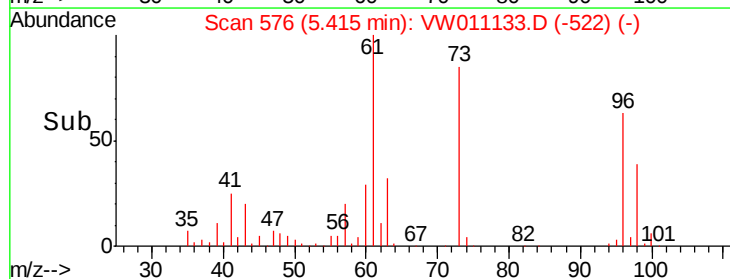
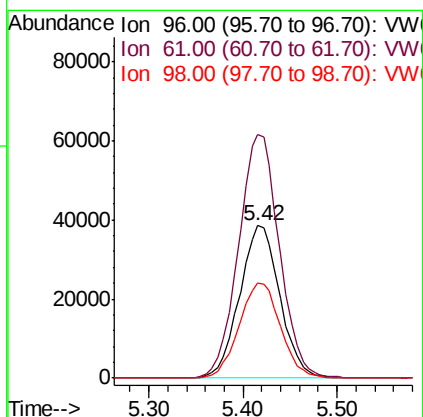
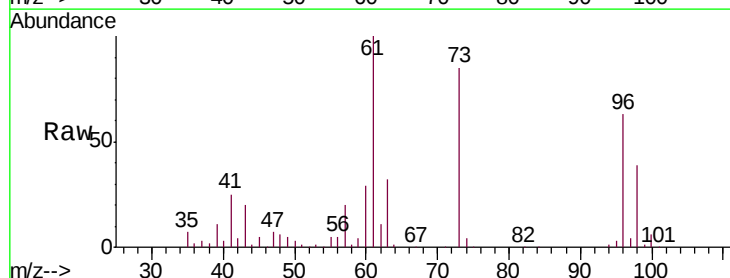
Instrument :
MSVOA_W
ClientSampleId :
VSTD02515

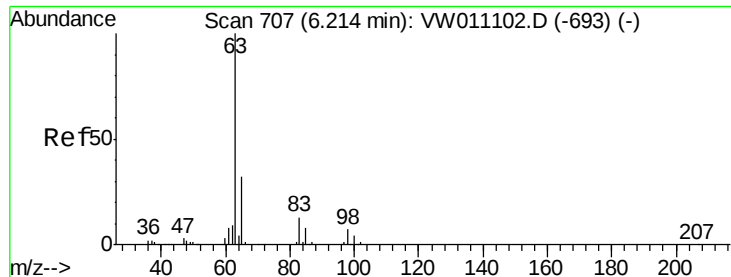
Tgt Ion: 73 Resp: 183965
Ion Ratio Lower Upper
73 100
43 25.3 20.2 30.2
57 24.2 19.6 29.4



#18
trans-1,2-Dichloroethene
Concen: 22.714 ug/L
RT: 5.42 min Scan# 576
Delta R.T. -0.00 min
Lab File: VW011133.D
Acq: 03 Jul 2019 09:21

Tgt Ion: 96 Resp: 115017
Ion Ratio Lower Upper
96 100
61 159.9 113.7 211.1
98 62.8 43.3 80.3

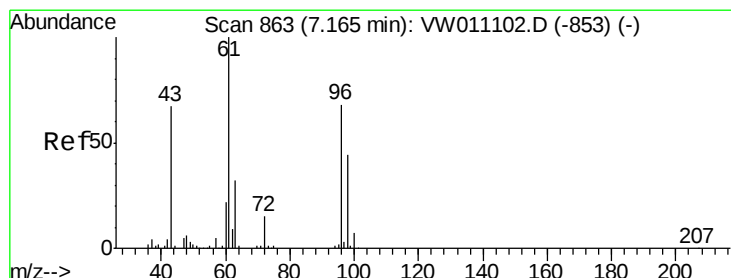
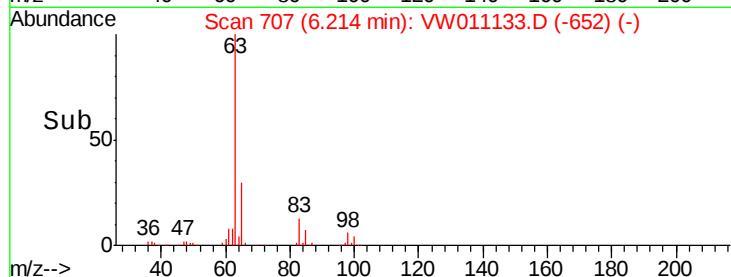
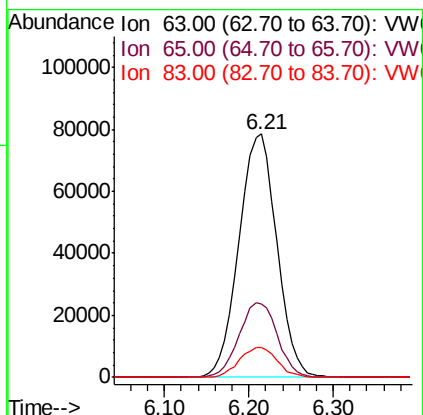
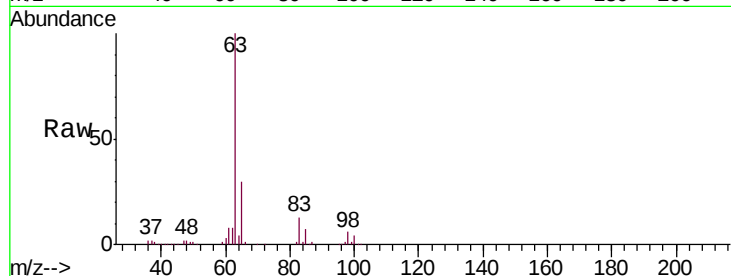




#19
 1,1-Dichloroethane
 Concen: 23.285 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. 0.01 min
 Lab File: VW011133.D
 Acq: 03 Jul 2019 09:21

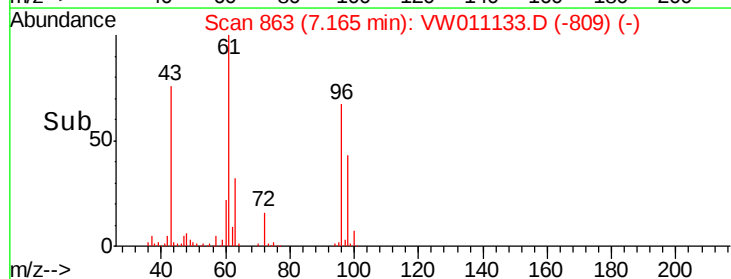
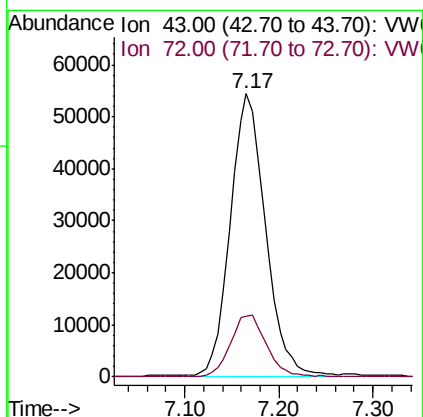
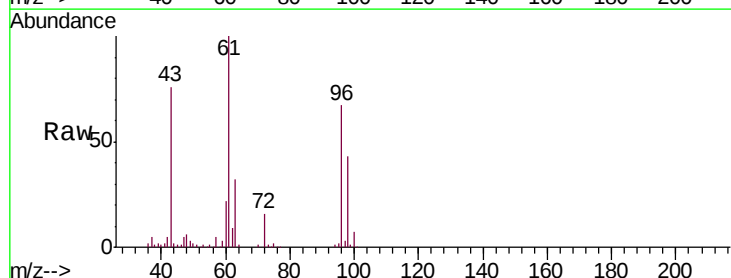
Instrument :
 MSVOA_W
 ClientSampled :
 VSTD02515

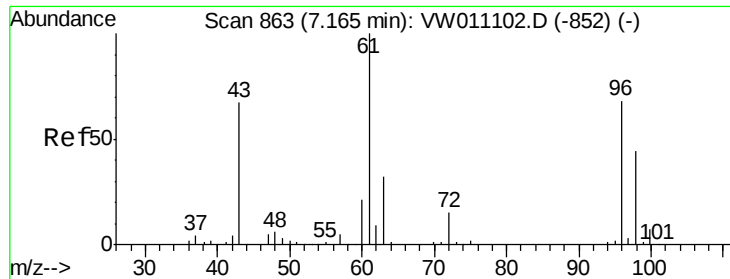
Tgt Ion	Ratio	Lower	Upper
63	100		
65	30.2	22.1	41.1
83	12.5	9.0	16.6



#21
 2-Butanone
 Concen: 49.195 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VW011133.D
 Acq: 03 Jul 2019 09:21

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.1	11.2	33.6



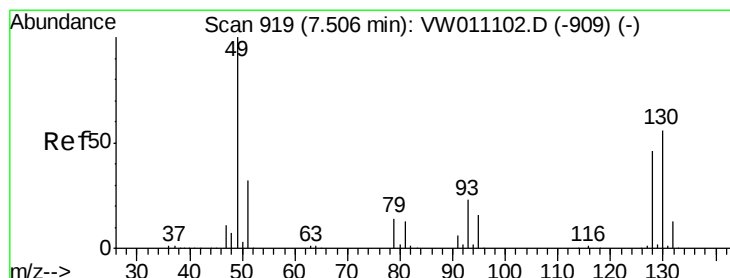
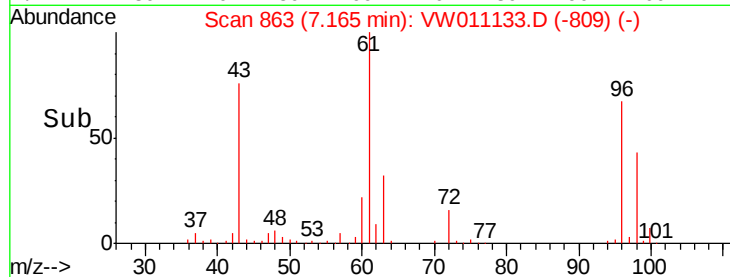
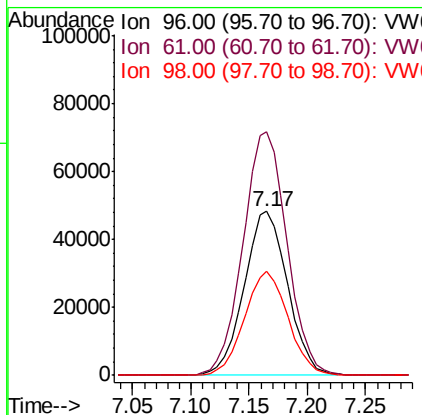
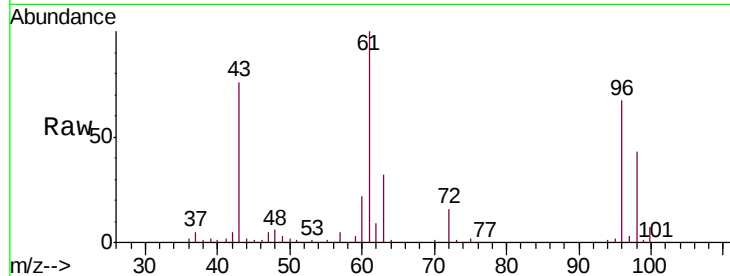


#22

cis-1,2-Dichloroethene
 Concen: 22.902 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VW011133.D
 Acq: 03 Jul 2019 09:21

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02515

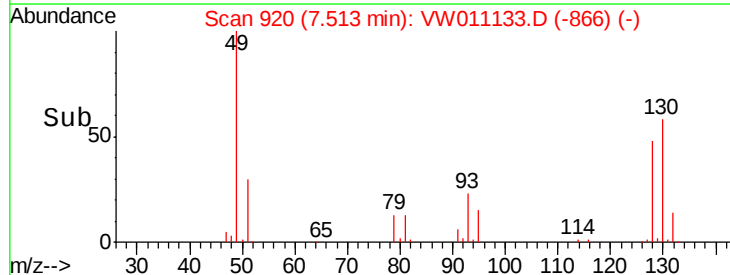
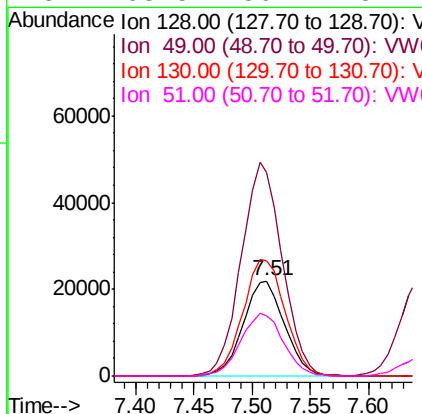
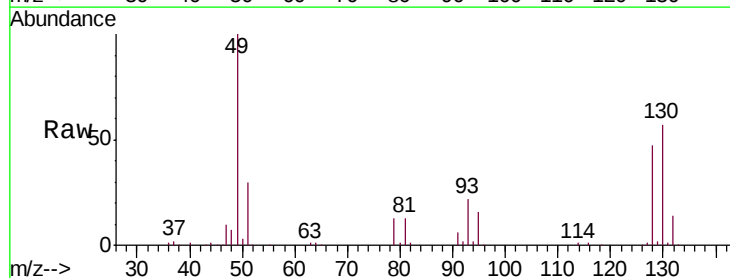
Tgt Ion: 96 Resp: 125530
 Ion Ratio Lower Upper
 96 100
 61 148.3 103.2 191.6
 98 63.7 44.8 83.2

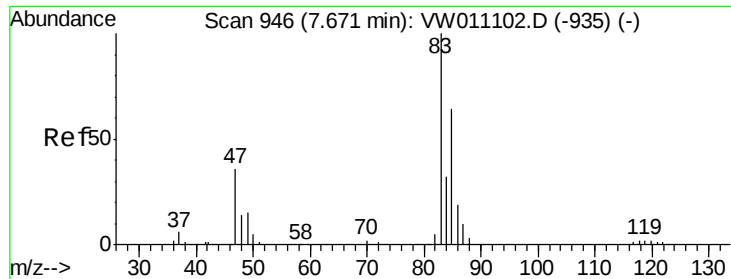


#23

Bromochloromethane
 Concen: 23.333 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. -0.00 min
 Lab File: VW011133.D
 Acq: 03 Jul 2019 09:21

Tgt Ion: 128 Resp: 53664
 Ion Ratio Lower Upper
 128 100
 49 214.6 153.8 285.6
 130 121.6 86.4 160.4
 51 63.5 56.2 84.4

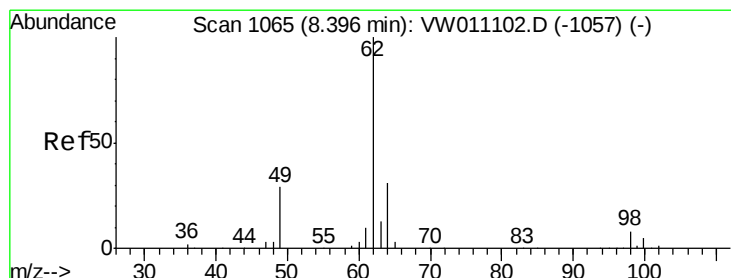
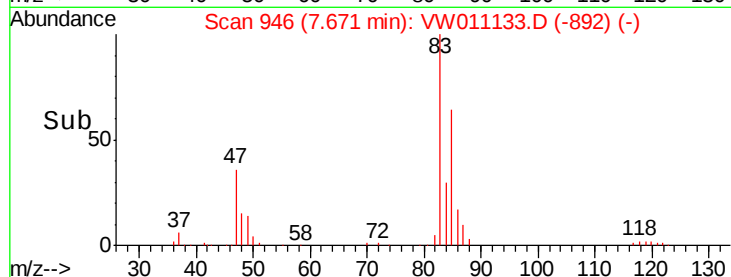
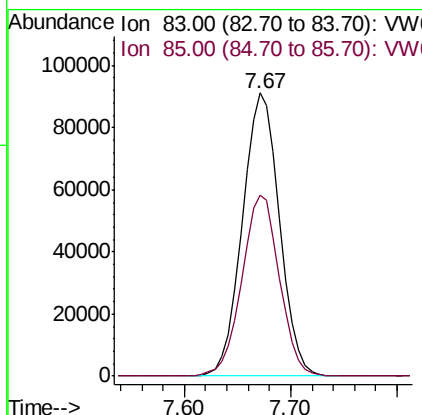
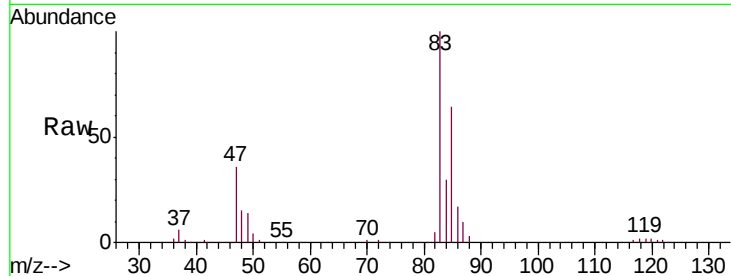




#25
Chloroform
Concen: 22.882 ug/L
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW011133.D
Acq: 03 Jul 2019 09:21

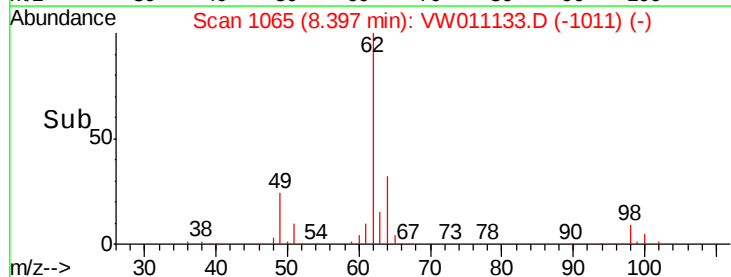
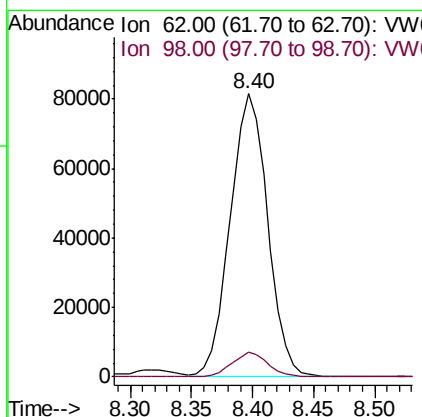
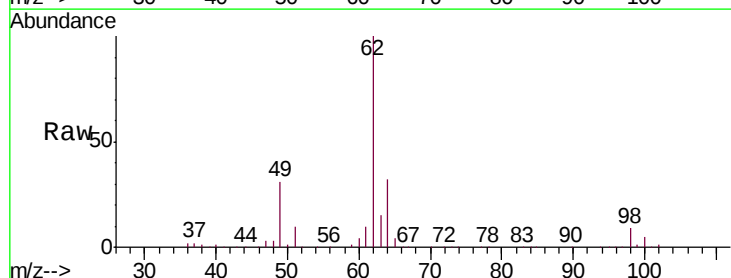
Instrument :
MSVOA_W
ClientSampleId :
VSTD02515

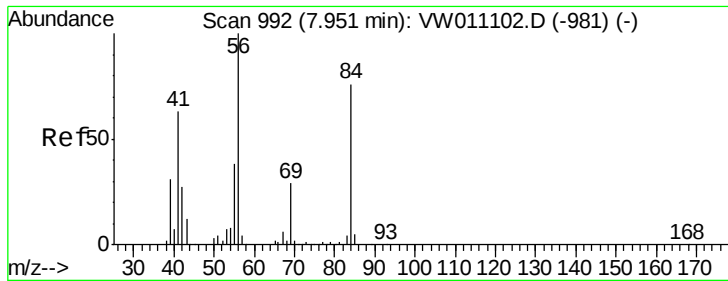
Tgt Ion: 83 Resp: 222803
Ion Ratio Lower Upper
83 100
85 64.8 45.6 84.6



#27
1,2-Dichloroethane
Concen: 23.227 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VW011133.D
Acq: 03 Jul 2019 09:21

Tgt Ion: 62 Resp: 172886
Ion Ratio Lower Upper
62 100
98 8.7 6.6 10.0

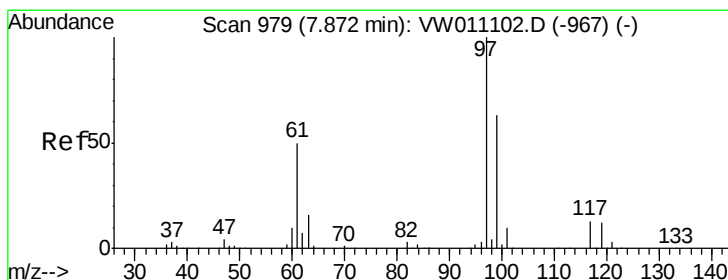
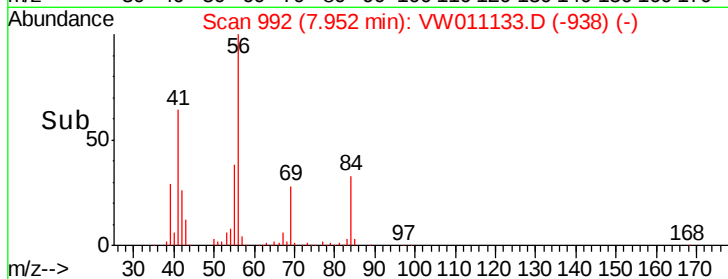
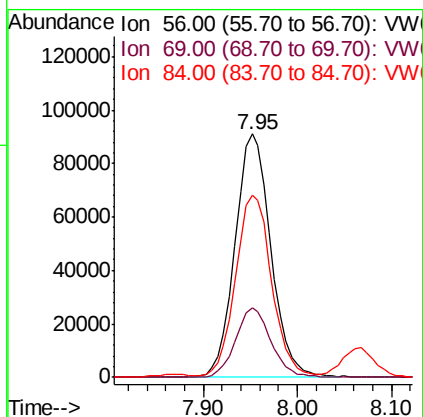
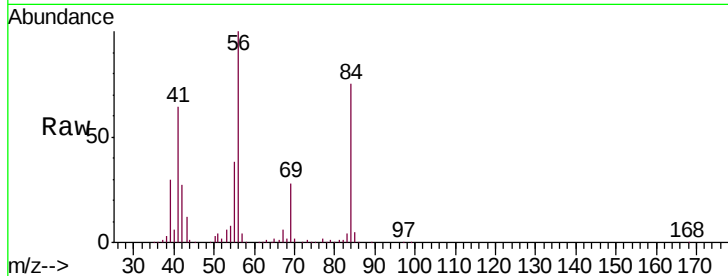




#30
Cyclohexane
Concen: 23.272 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW011133.D
Acq: 03 Jul 2019 09:21

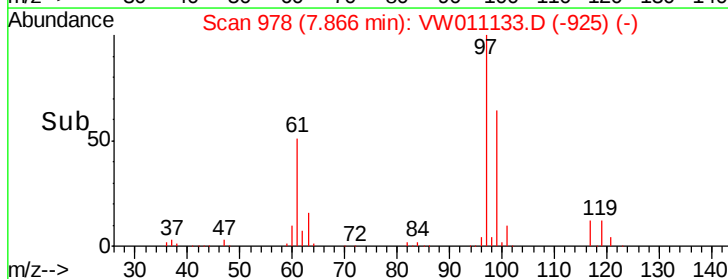
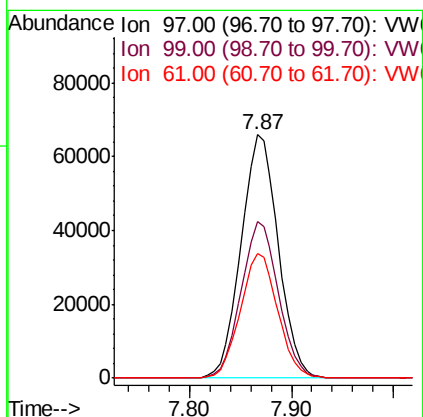
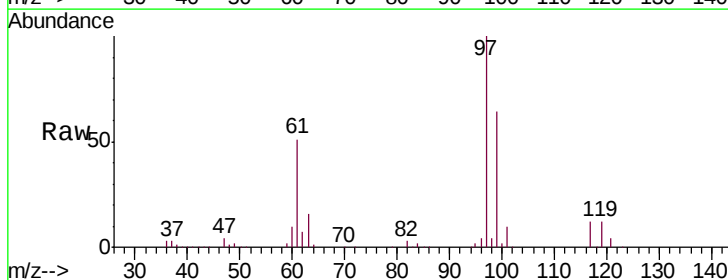
Instrument :
MSVOA_W
ClientSampleId :
VSTD02515

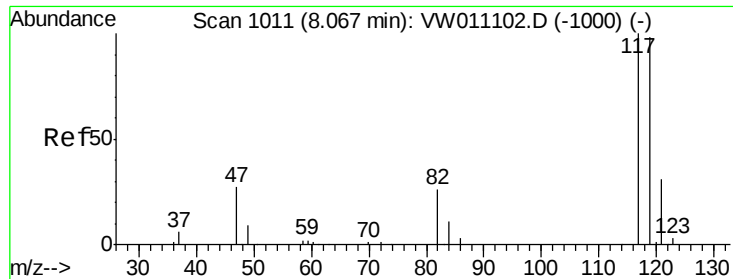
Tgt Ion: 56 Resp: 242411
Ion Ratio Lower Upper
56 100
69 27.9 22.5 33.7
84 75.3 60.9 91.3



#31
1,1,1-Trichloroethane
Concen: 23.542 ug/L
RT: 7.87 min Scan# 978
Delta R.T. -0.01 min
Lab File: VW011133.D
Acq: 03 Jul 2019 09:21

Tgt Ion: 97 Resp: 167400
Ion Ratio Lower Upper
97 100
99 64.5 50.6 75.8
61 51.4 40.9 61.3





#32

Carbon tetrachloride

Concen: 23.590 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VW011133.D

Acq: 03 Jul 2019 09:21

Instrument :

MSVOA_W

ClientSampleId :

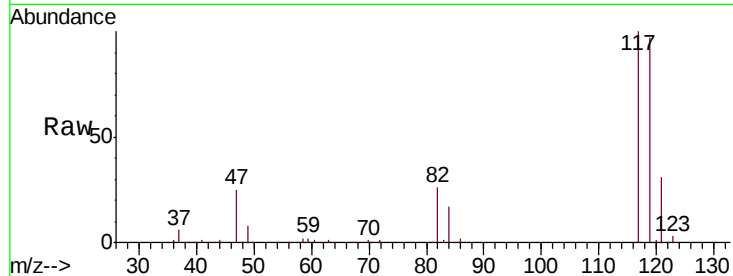
VSTD02515

Tgt Ion:117 Resp: 157311

Ion Ratio Lower Upper

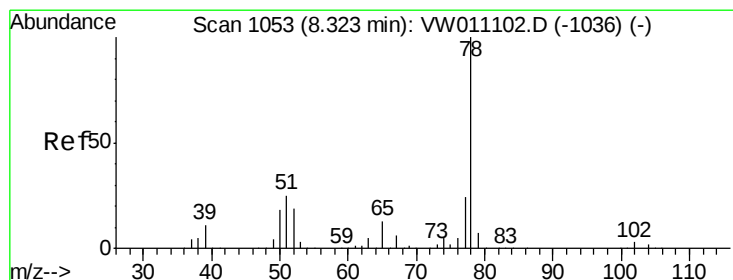
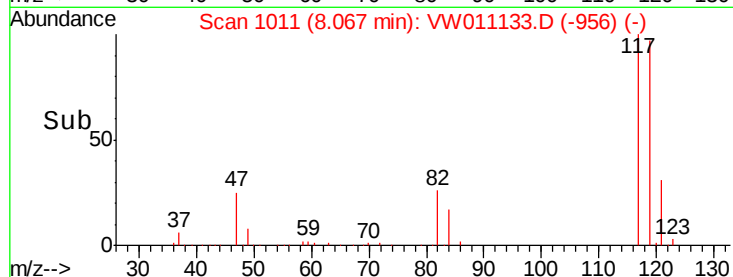
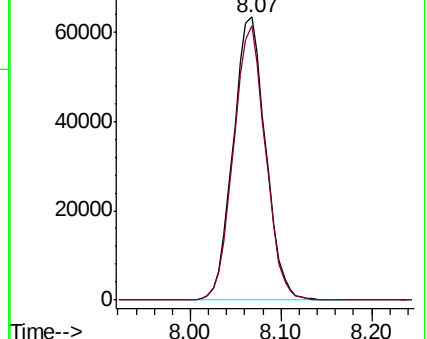
117 100

119 95.3 77.4 116.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 23.385 ug/L

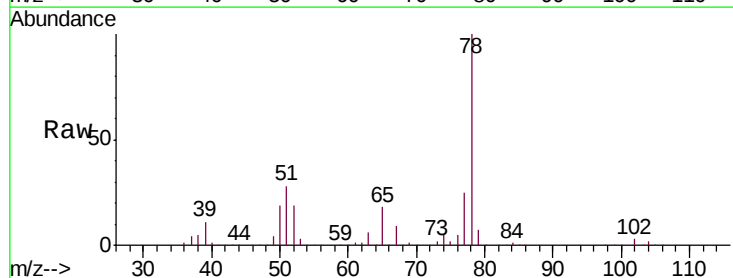
RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

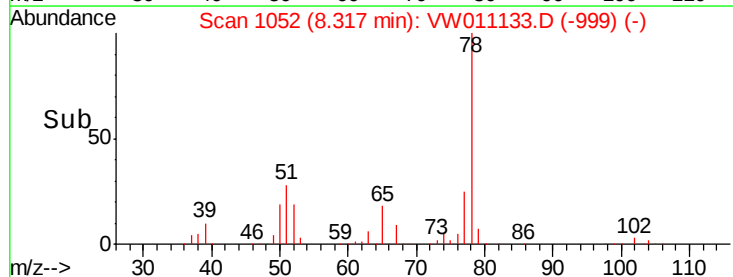
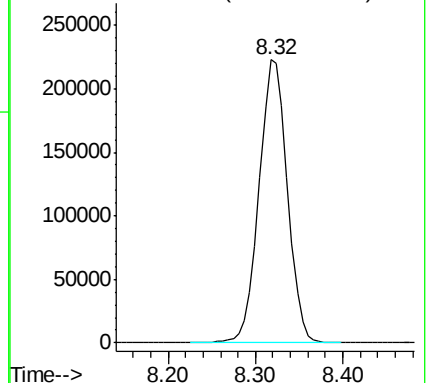
Lab File: VW011133.D

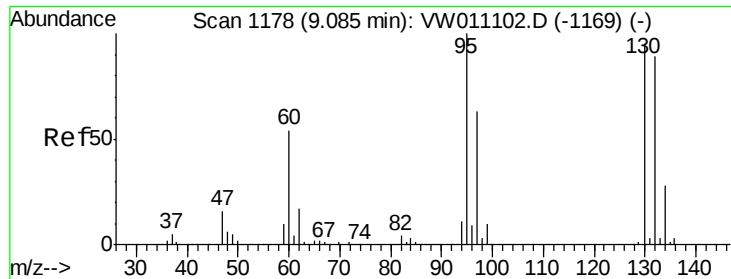
Acq: 03 Jul 2019 09:21

Tgt Ion: 78 Resp: 500715



Abundance Ion 78.00 (77.70 to 78.70): VW

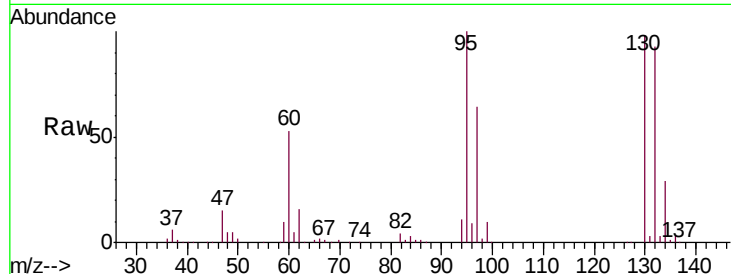




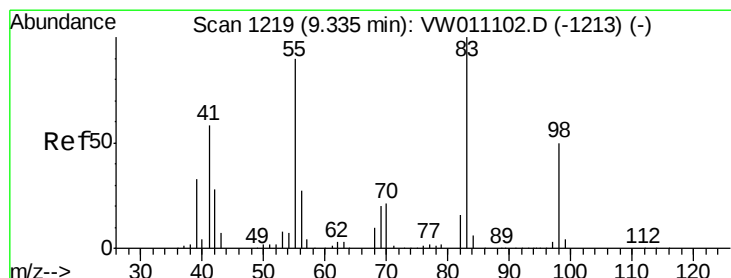
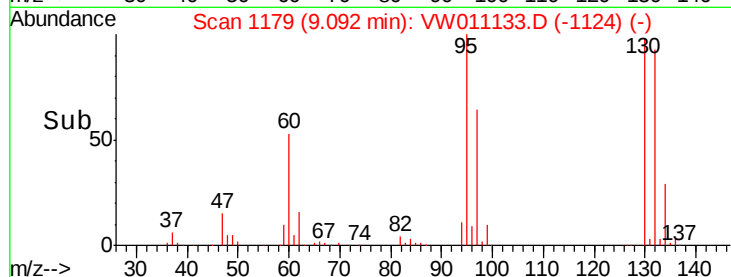
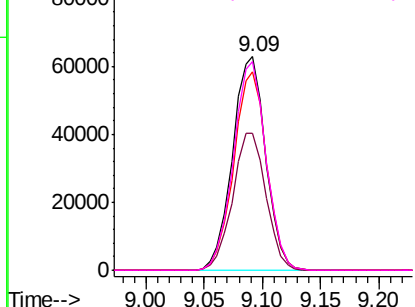
#35
 Trichloroethene
 Concen: 23.063 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. 0.01 min
 Lab File: VW011133.D
 Acq: 03 Jul 2019 09:21

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02515

Tgt Ion: 95 Resp: 124620
 Ion Ratio Lower Upper
 95 100
 97 64.7 45.4 84.2
 132 92.2 65.0 120.8
 130 96.4 67.8 126.0

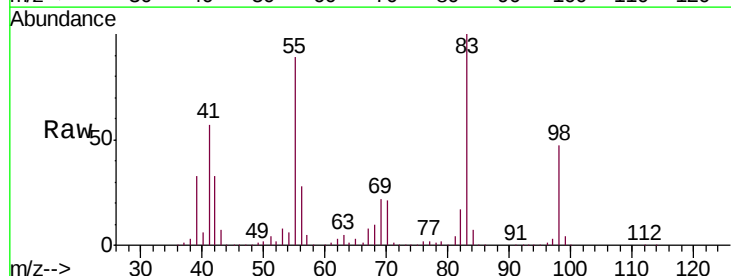


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

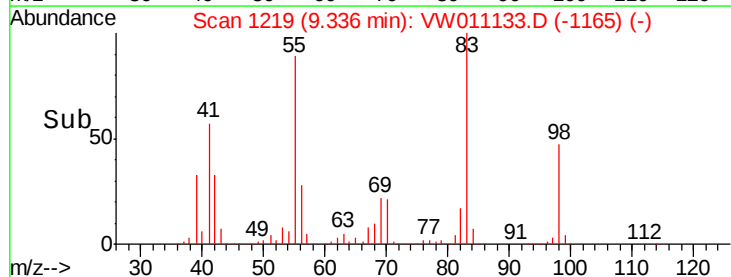
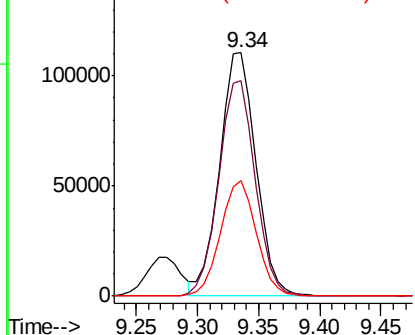


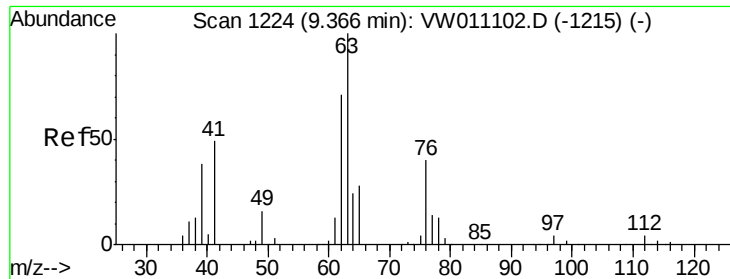
#36
 Methylcyclohexane
 Concen: 23.503 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: VW011133.D
 Acq: 03 Jul 2019 09:21

Tgt Ion: 83 Resp: 228536
 Ion Ratio Lower Upper
 83 100
 55 88.7 72.2 108.4
 98 46.8 38.2 57.4



Abundance Ion 83.00 (82.70 to 83.70): VW
 Ion 55.00 (54.70 to 55.70): VW
 Ion 98.00 (97.70 to 98.70): VW

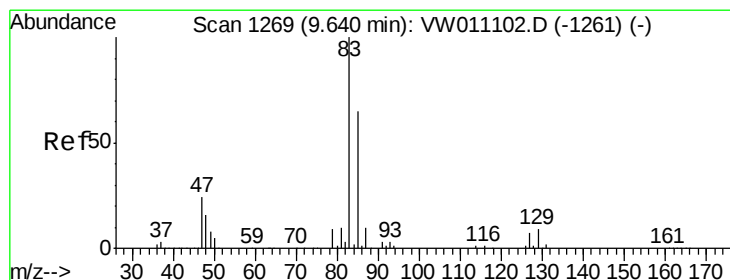
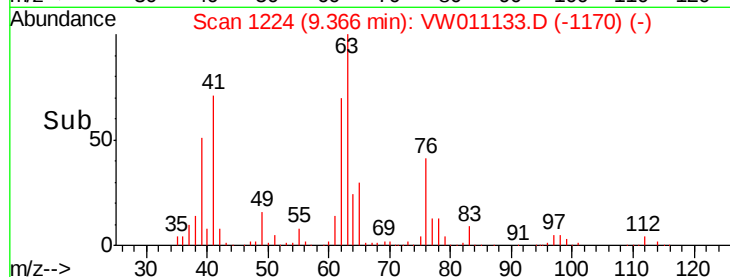
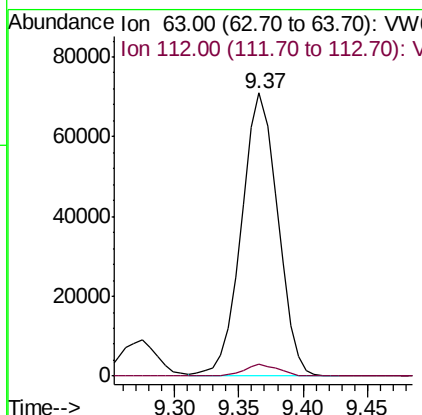
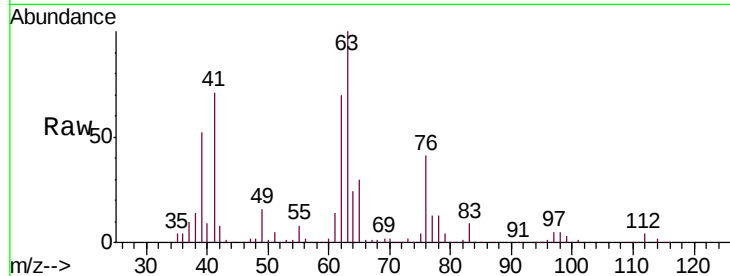




#40
1,2-Dichloropropane
Concen: 23.596 ug/L
RT: 9.37 min Scan# 1224
Delta R.T. 0.00 min
Lab File: VW011133.D
Acq: 03 Jul 2019 09:21

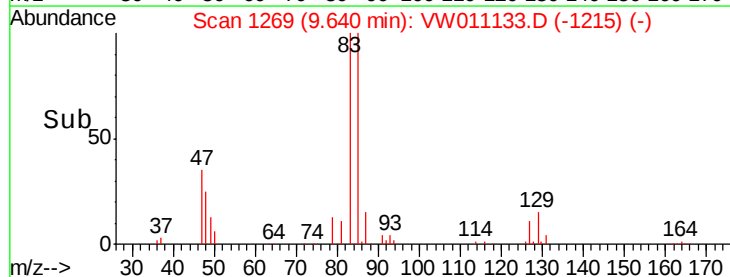
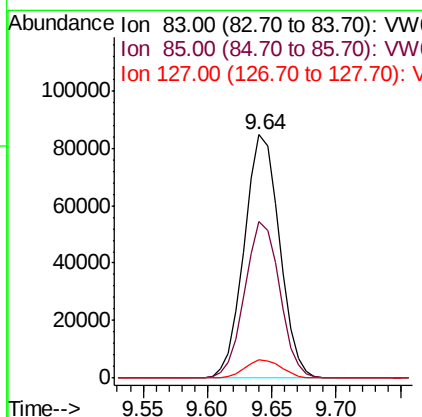
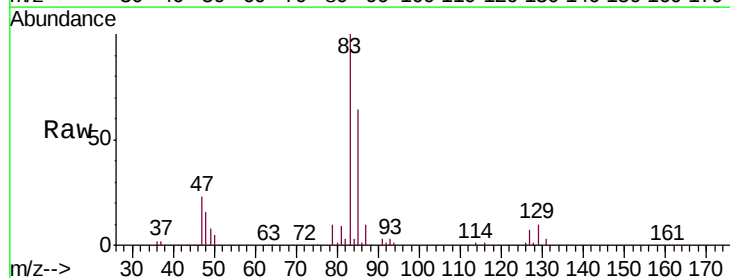
Instrument :
MSVOA_W
ClientSampleId :
VSTD02515

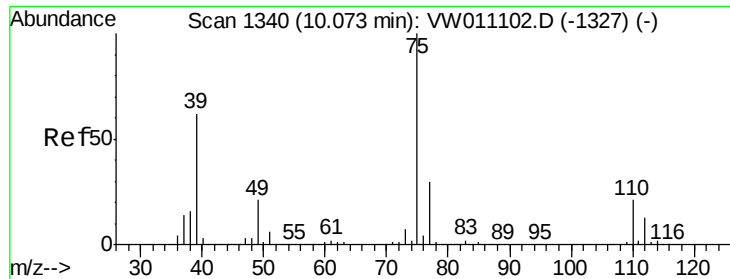
Tgt Ion: 63 Resp: 138445
Ion Ratio Lower Upper
63 100
112 4.1 3.0 4.6



#41
Bromodichloromethane
Concen: 23.741 ug/L
RT: 9.64 min Scan# 1269
Delta R.T. -0.00 min
Lab File: VW011133.D
Acq: 03 Jul 2019 09:21

Tgt Ion: 83 Resp: 160594
Ion Ratio Lower Upper
83 100
85 64.4 45.5 84.5
127 7.3 5.8 8.8

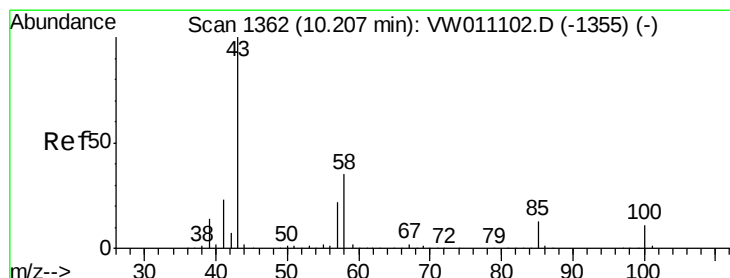
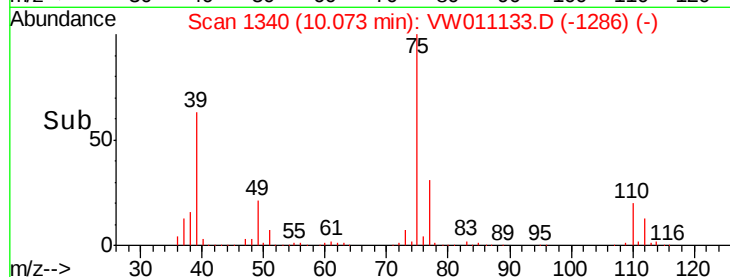
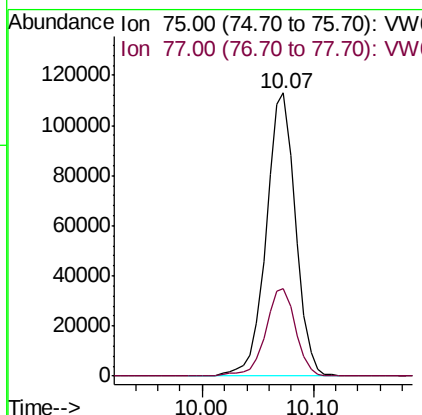
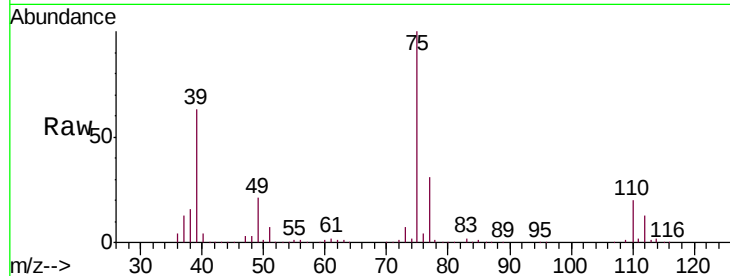




#42
 cis-1,3-Dichloropropene
 Concen: 23.917 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW011133.D
 Acq: 03 Jul 2019 09:21

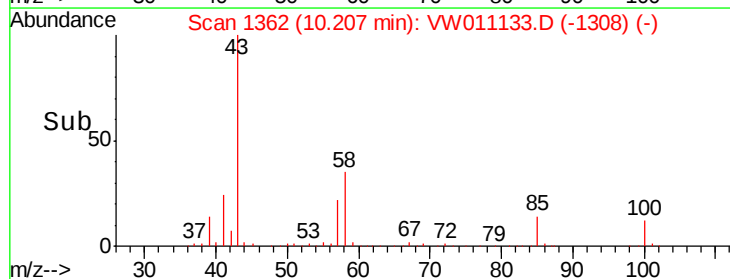
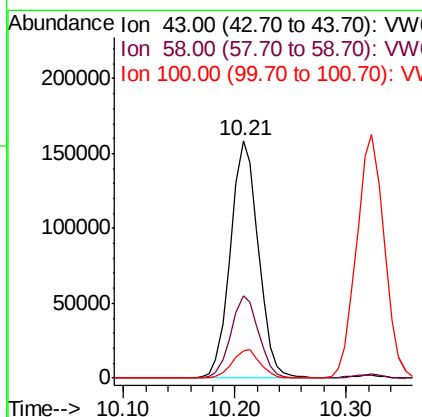
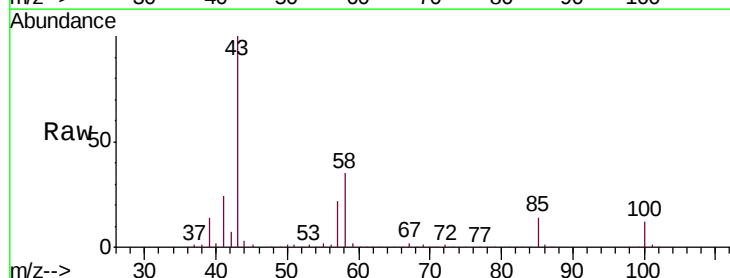
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02515

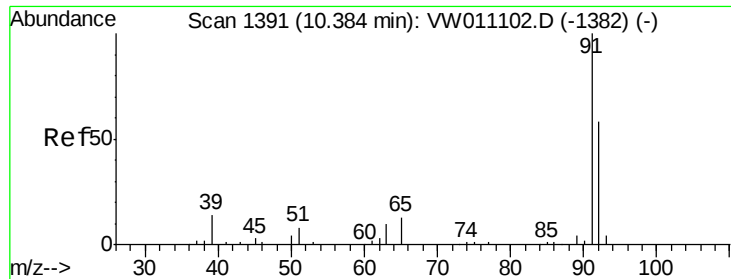
Tgt Ion: 75 Resp: 207054
 Ion Ratio Lower Upper
 75 100
 77 30.8 21.1 39.1



#43
 4-Methyl-2-pentanone
 Concen: 50.623 ug/L
 RT: 10.21 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: VW011133.D
 Acq: 03 Jul 2019 09:21

Tgt Ion: 43 Resp: 275343
 Ion Ratio Lower Upper
 43 100
 58 34.8 28.1 42.1
 100 11.9 9.3 13.9





#44

Toluene

Concen: 23.542 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW011133.D

Acq: 03 Jul 2019 09:21

Instrument :

MSVOA_W

ClientSampleId :

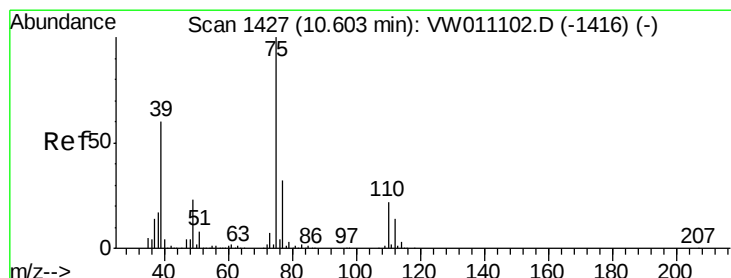
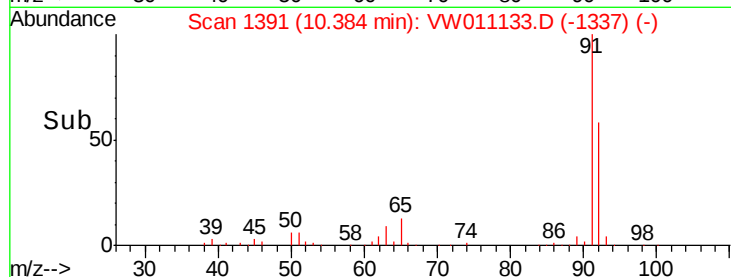
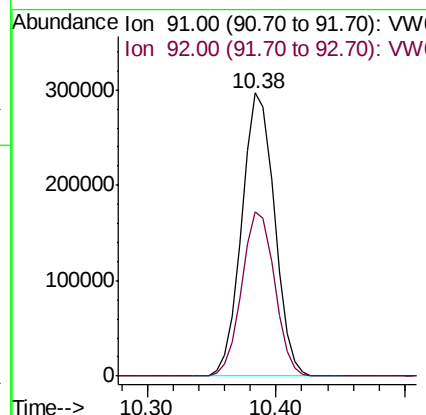
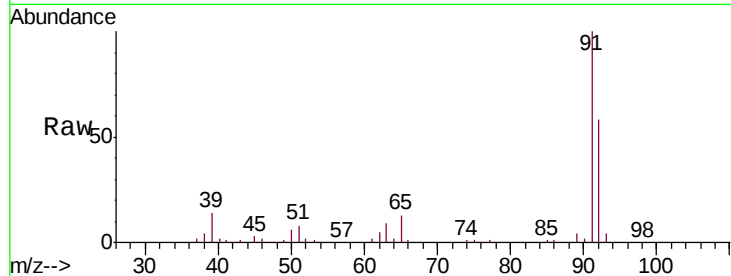
VSTD02515

Tgt Ion: 91 Resp: 521756

Ion Ratio Lower Upper

91 100

92 58.1 40.8 75.8



#45

trans-1,3-Dichloropropene

Concen: 24.247 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW011133.D

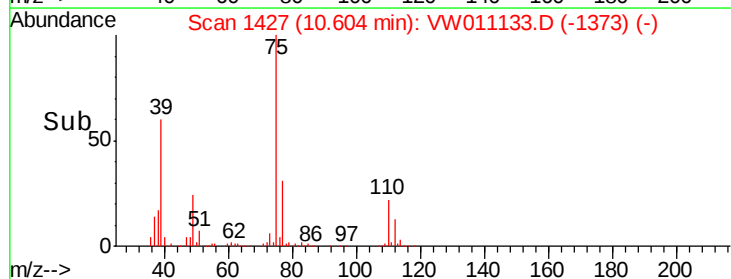
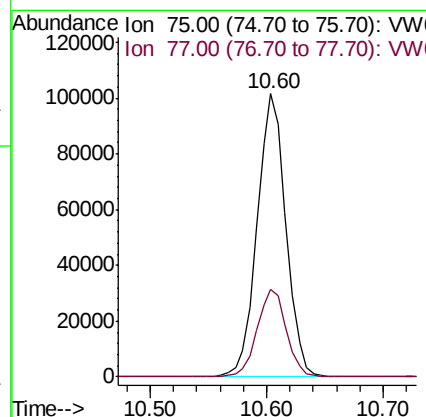
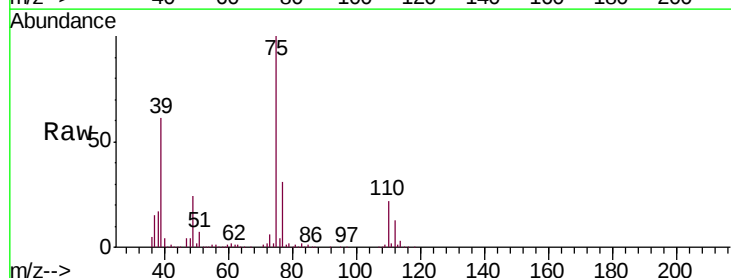
Acq: 03 Jul 2019 09:21

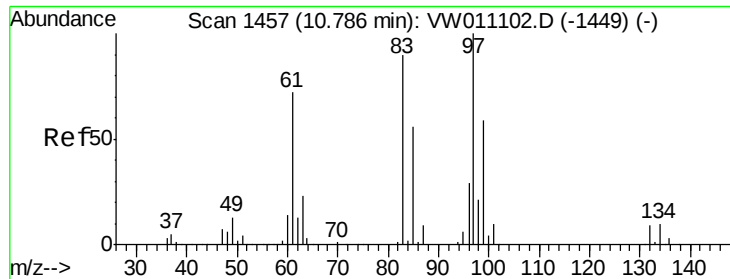
Tgt Ion: 75 Resp: 173688

Ion Ratio Lower Upper

75 100

77 30.9 22.3 41.5

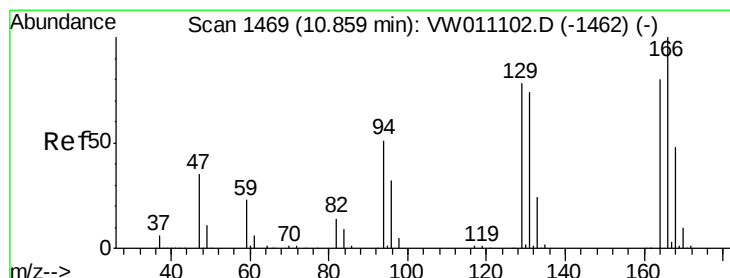
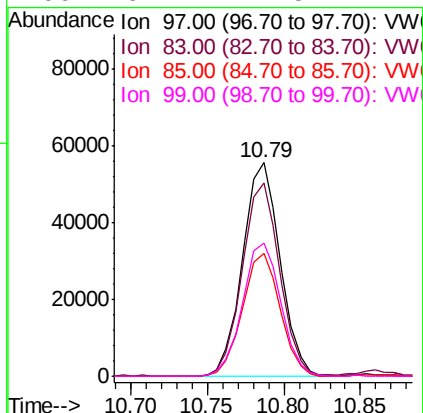
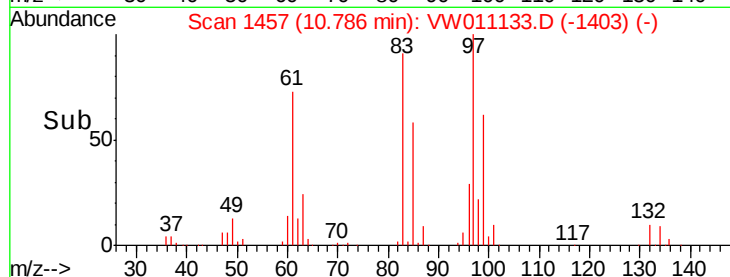
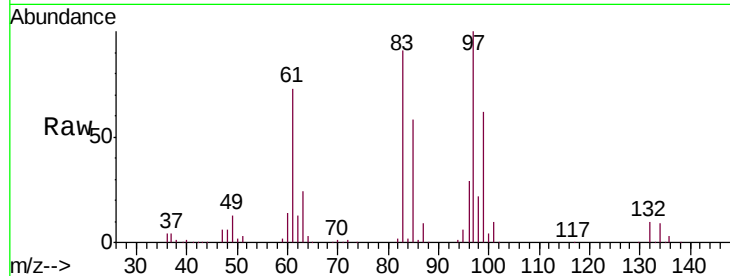




#46
 1,1,2-Trichloroethane
 Concen: 23.493 ug/L
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VW011133.D
 Acq: 03 Jul 2019 09:21

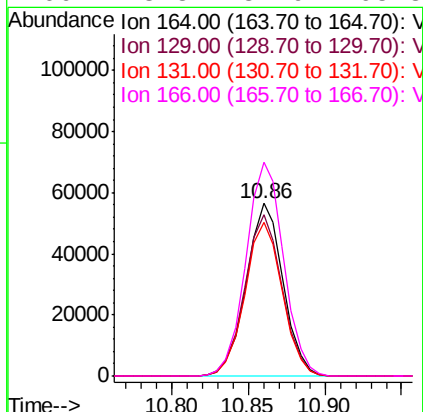
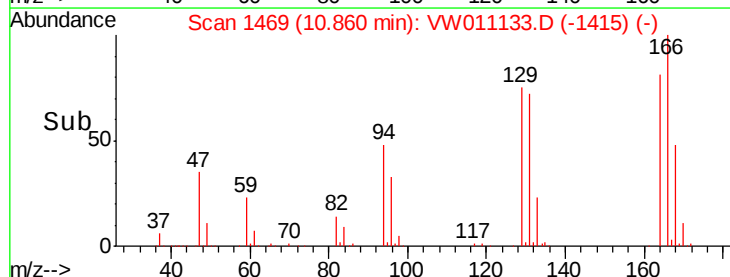
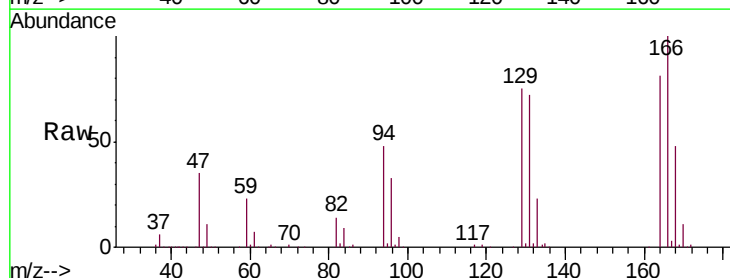
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02515

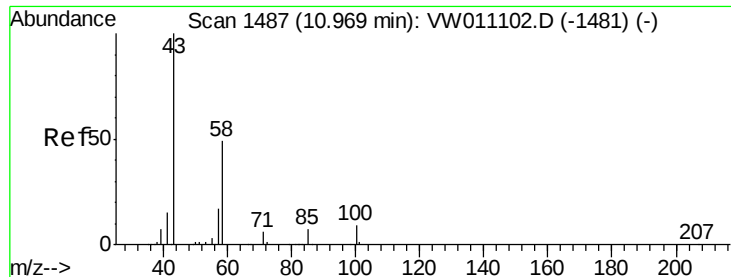
Tgt Ion:	97	Resp:	95455
Ion	Ratio	Lower	Upper
97	100		
83	90.6	63.1	117.3
85	57.5	39.0	72.4
99	62.2	41.5	77.1



#47
 Tetrachloroethene
 Concen: 23.081 ug/L
 RT: 10.86 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VW011133.D
 Acq: 03 Jul 2019 09:21

Tgt Ion:	164	Resp:	94256
Ion	Ratio	Lower	Upper
164	100		
129	93.3	68.5	127.1
131	88.9	64.8	120.4
166	123.8	87.9	163.3





#49

2-Hexanone

Concen: 53.218 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW011133.D

Acq: 03 Jul 2019 09:21

Instrument :

MSVOA_W

ClientSampleId :

VSTD02515

Tgt Ion: 43 Resp: 210693

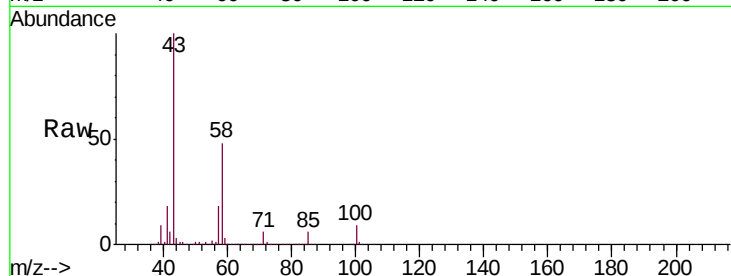
Ion Ratio Lower Upper

43 100

58 49.1 38.4 57.6

57 16.8 13.3 19.9

100 9.2 7.3 10.9



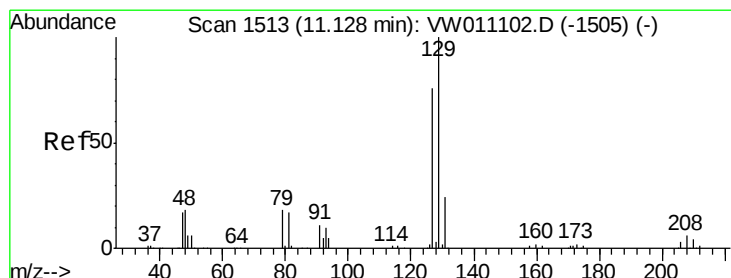
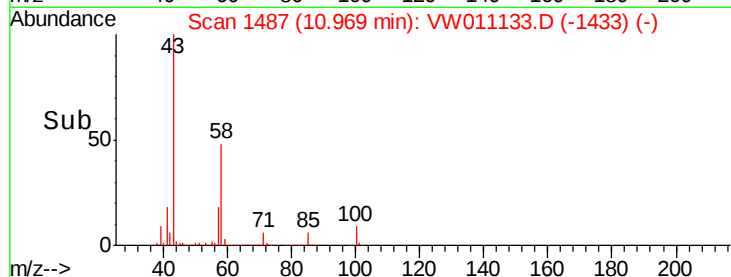
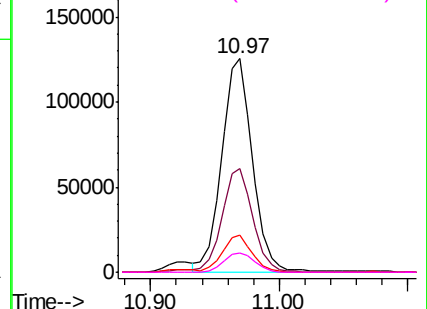
Abundance

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW



#50

Dibromochloromethane

Concen: 23.842 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW011133.D

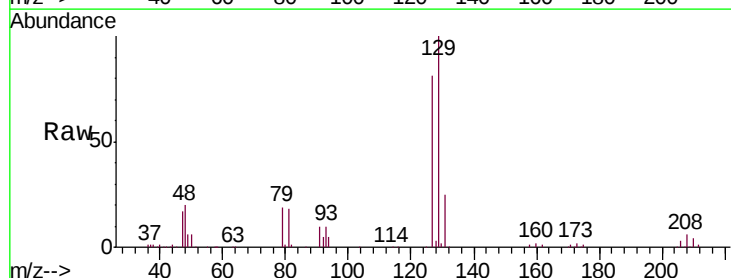
Acq: 03 Jul 2019 09:21

Tgt Ion: 129 Resp: 103158

Ion Ratio Lower Upper

129 100

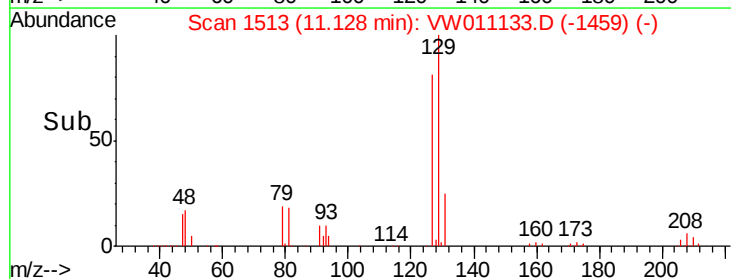
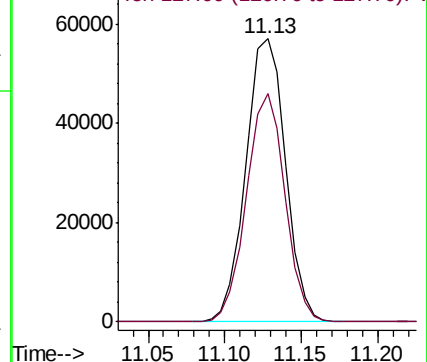
127 80.6 53.3 99.1

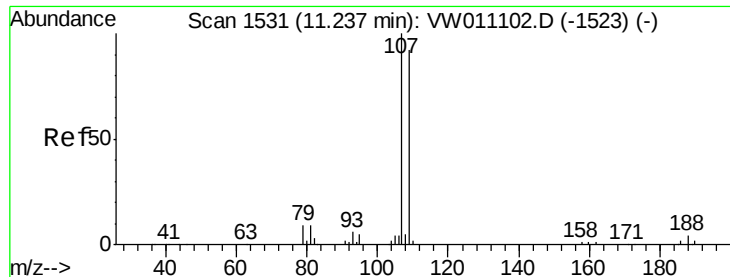


Abundance

Ion 129.00 (128.70 to 129.70): VW

Ion 127.00 (126.70 to 127.70): VW

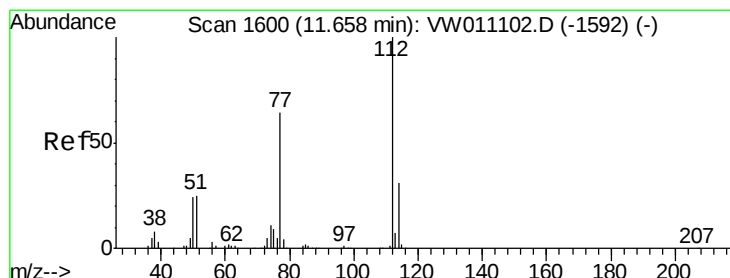
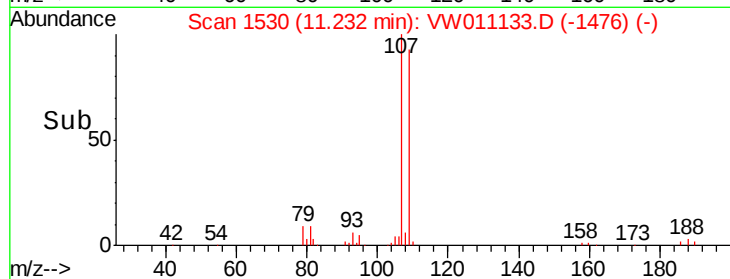
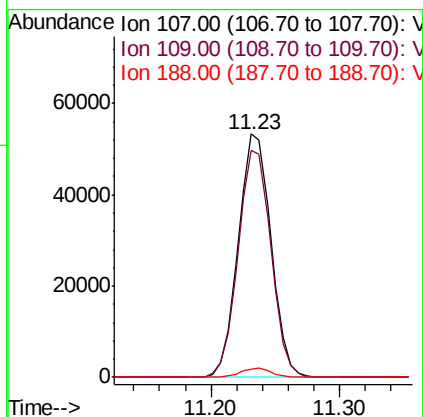
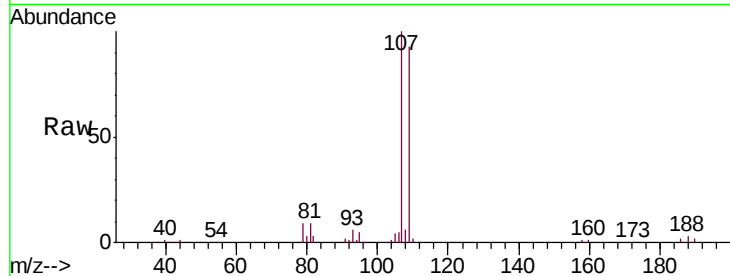




#51
1,2-Dibromoethane
Concen: 23.884 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. -0.00 min
Lab File: VW011133.D
Acq: 03 Jul 2019 09:21

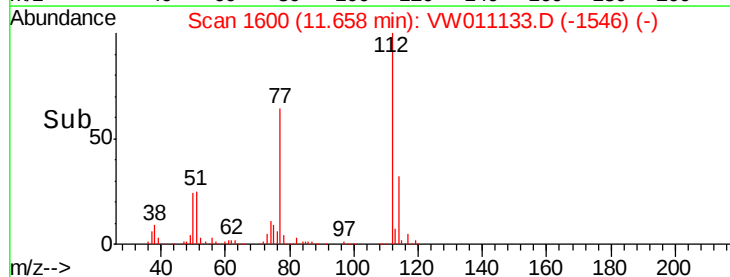
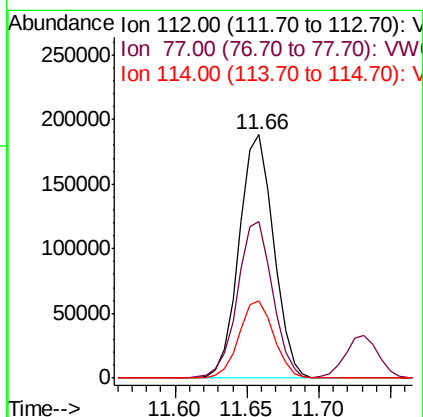
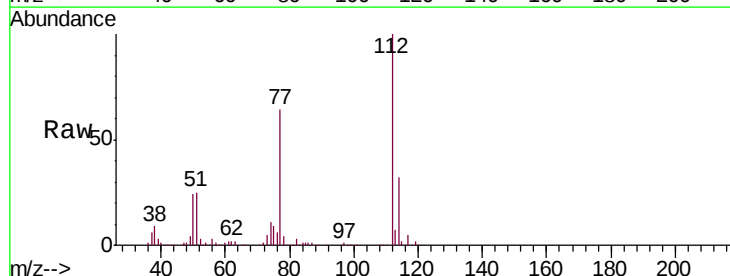
Instrument :
MSVOA_W
ClientSampleId :
VSTD02515

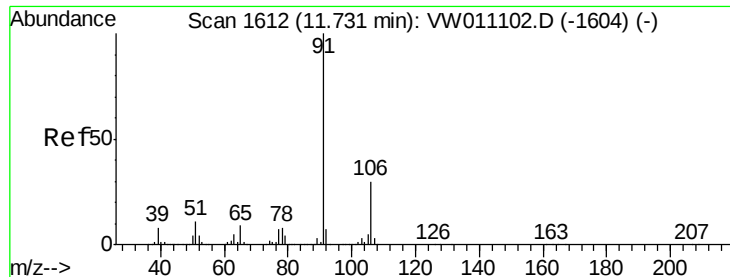
Tgt Ion:107 Resp: 93705
Ion Ratio Lower Upper
107 100
109 93.4 64.3 119.3
188 3.4 3.2 4.8



#52
Chlorobenzene
Concen: 23.192 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW011133.D
Acq: 03 Jul 2019 09:21

Tgt Ion:112 Resp: 314019
Ion Ratio Lower Upper
112 100
77 64.1 51.2 76.8
114 31.5 22.0 40.8





#53

Ethylbenzene

Concen: 23.345 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW011133.D

Acq: 03 Jul 2019 09:21

Instrument :

MSVOA_W

ClientSampleId :

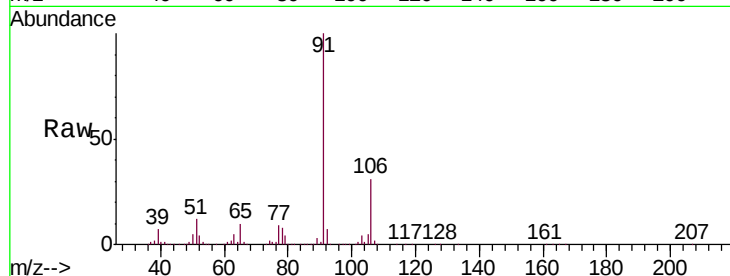
VSTD02515

Tgt Ion: 91 Resp: 586865

Ion Ratio Lower Upper

91 100

106 30.6 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

11.73

400000

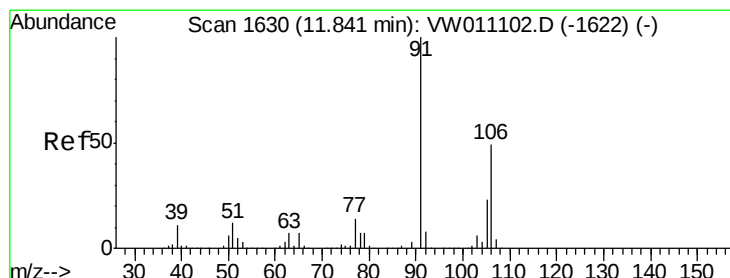
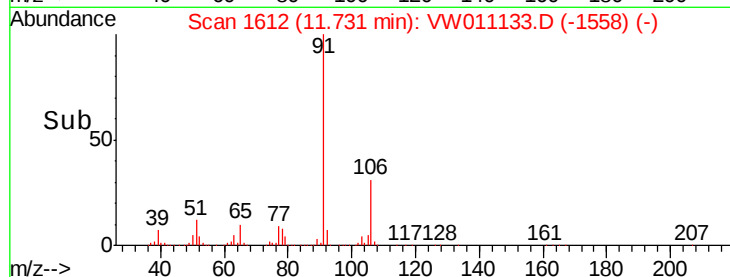
300000

200000

100000

0

Time-->



#54

m,p-Xylene

Concen: 23.466 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW011133.D

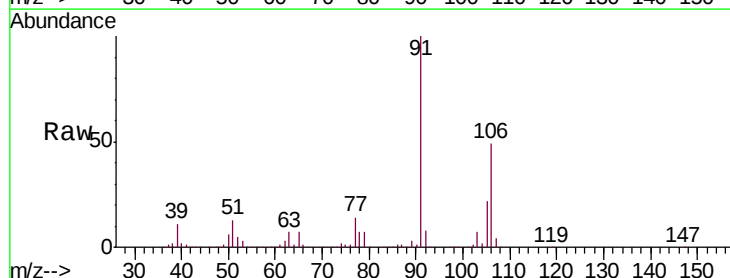
Acq: 03 Jul 2019 09:21

Tgt Ion: 106 Resp: 214180

Ion Ratio Lower Upper

106 100

91 203.2 142.6 264.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

11.84

400000

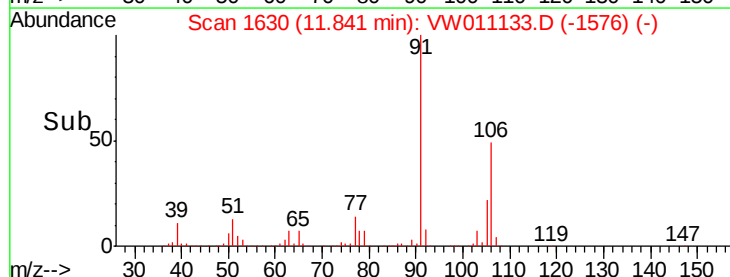
300000

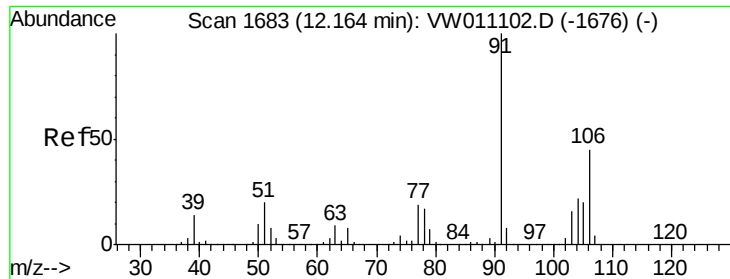
200000

100000

0

Time-->





#55

o-xylene

Concen: 23.651 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW011133.D

Acq: 03 Jul 2019 09:21

Instrument :

MSVOA_W

ClientSampleId :

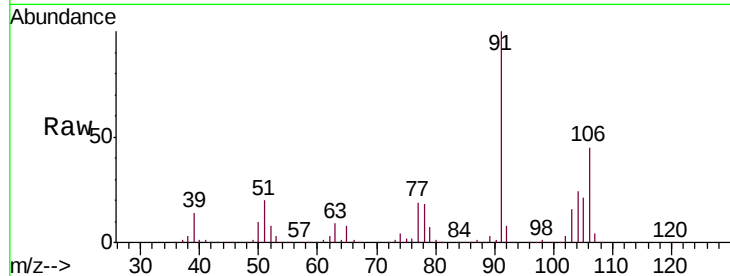
VSTD02515

Tgt Ion:106 Resp: 205353

Ion Ratio Lower Upper

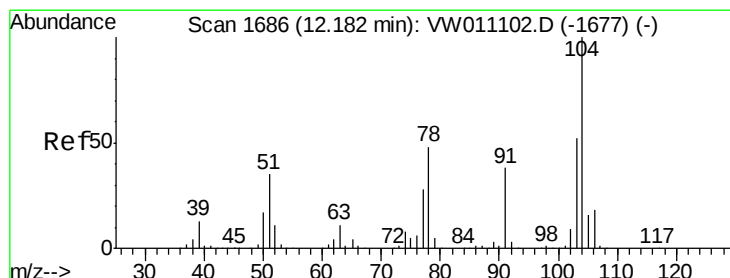
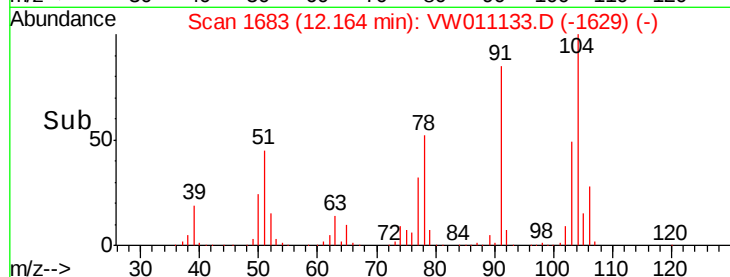
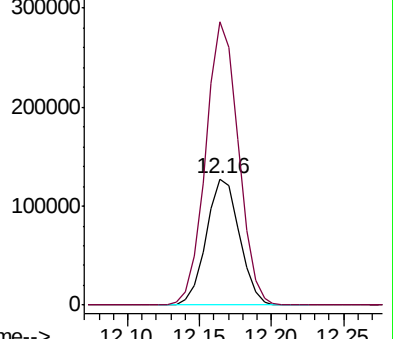
106 100

91 223.7 154.6 287.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 24.026 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW011133.D

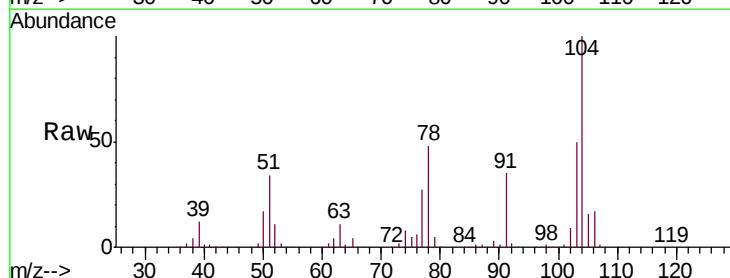
Acq: 03 Jul 2019 09:21

Tgt Ion:104 Resp: 357862

Ion Ratio Lower Upper

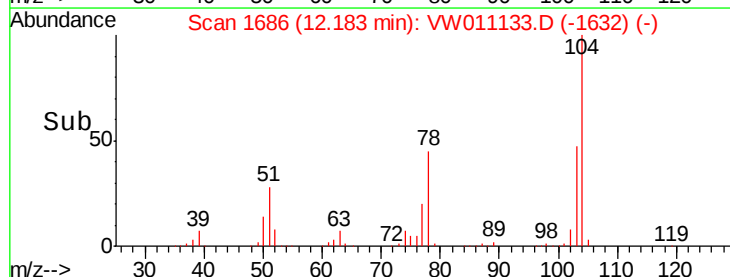
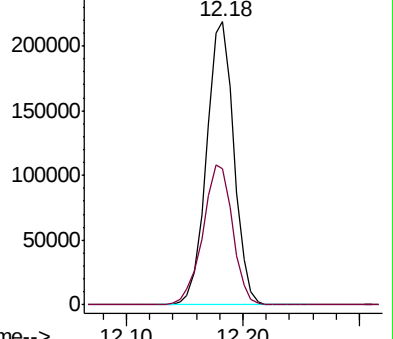
104 100

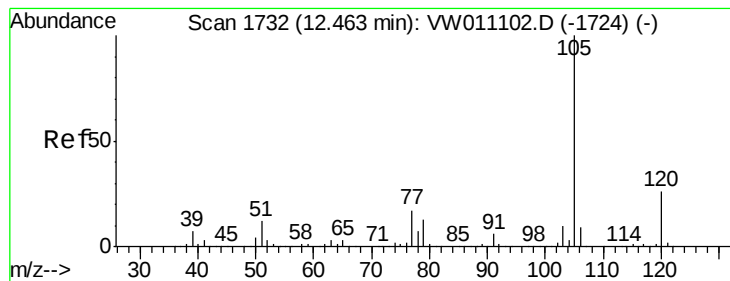
78 48.1 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 23.734 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW011133.D

Acq: 03 Jul 2019 09:21

Instrument :

MSVOA_W

ClientSampleId :

VSTD02515

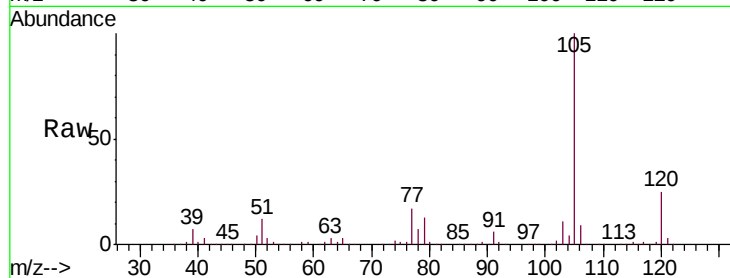
Tgt Ion: 105 Resp: 562525

Ion Ratio Lower Upper

105 100

120 25.5 20.7 31.1

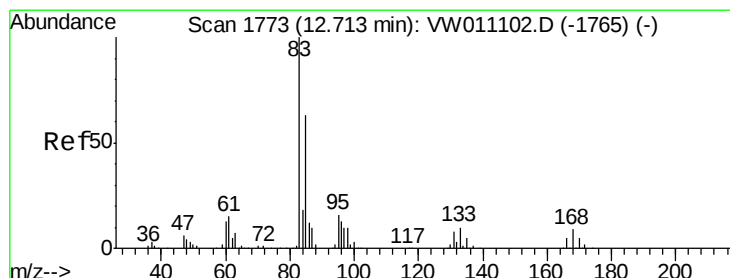
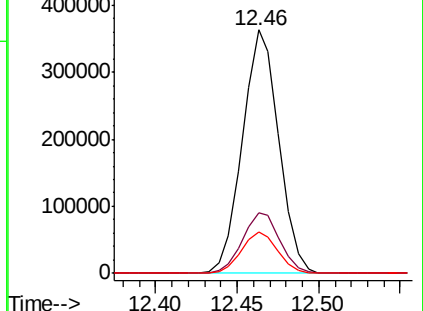
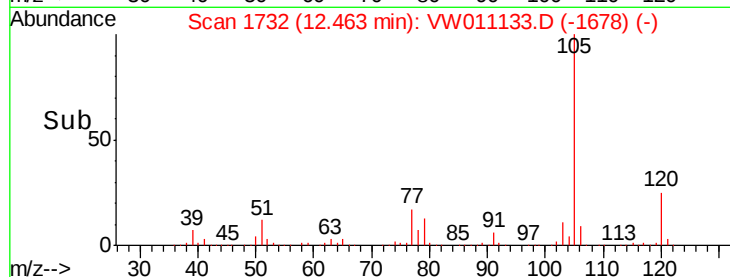
77 17.0 13.5 20.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 24.870 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW011133.D

Acq: 03 Jul 2019 09:21

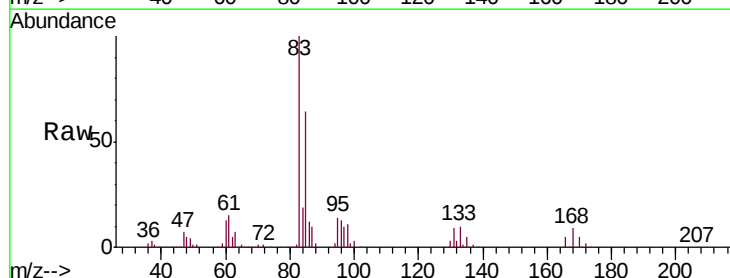
Tgt Ion: 83 Resp: 134429

Ion Ratio Lower Upper

83 100

85 64.0 44.0 81.6

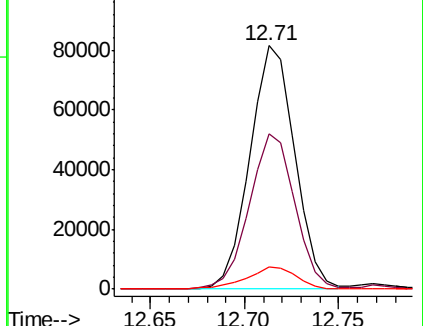
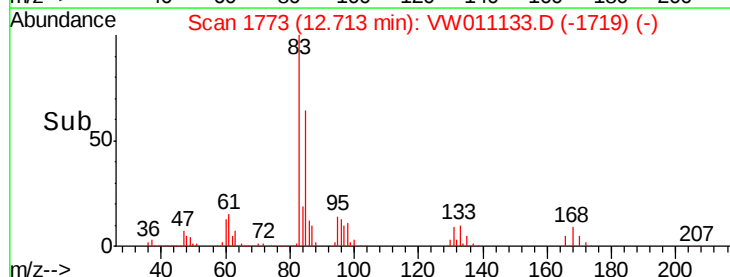
131 9.2 6.7 10.1

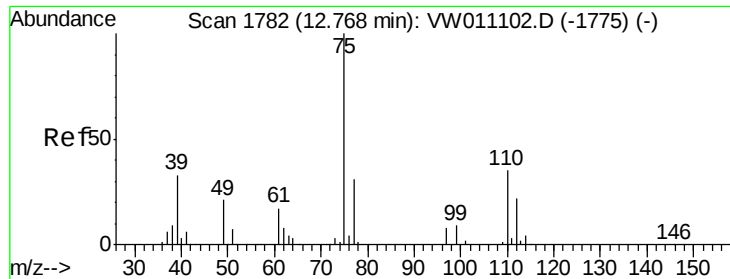


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 24.947 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW011133.D

Acq: 03 Jul 2019 09:21

Instrument :

MSVOA_W

ClientSampleId :

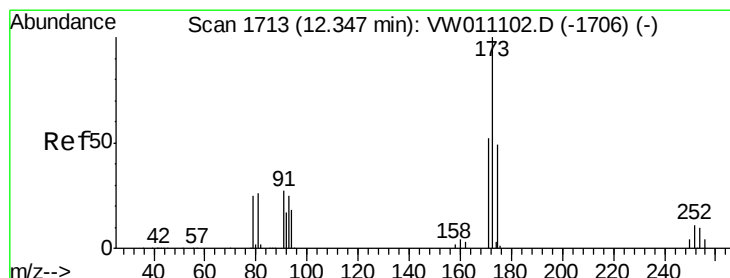
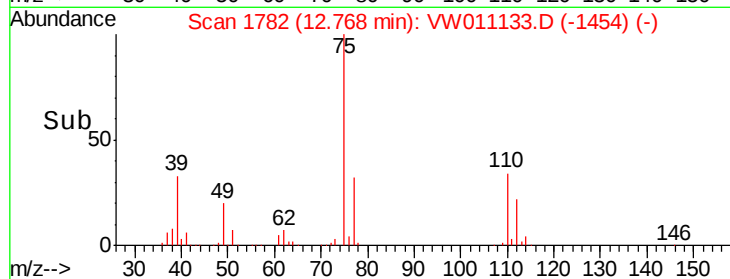
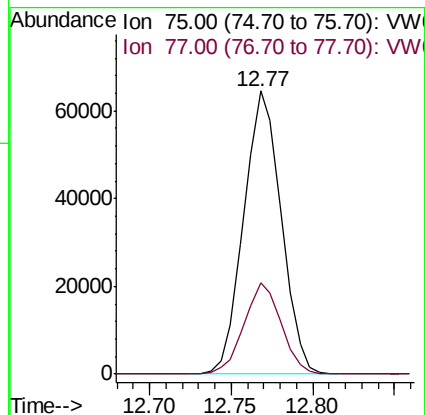
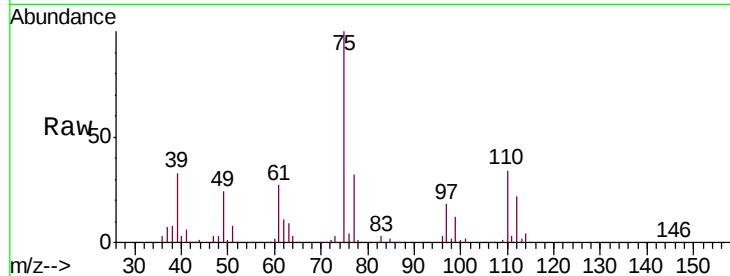
VSTD02515

Tgt Ion: 75 Resp: 103558

Ion Ratio Lower Upper

75 100

77 32.0 25.4 38.0



#62

Bromoform

Concen: 24.021 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW011133.D

Acq: 03 Jul 2019 09:21

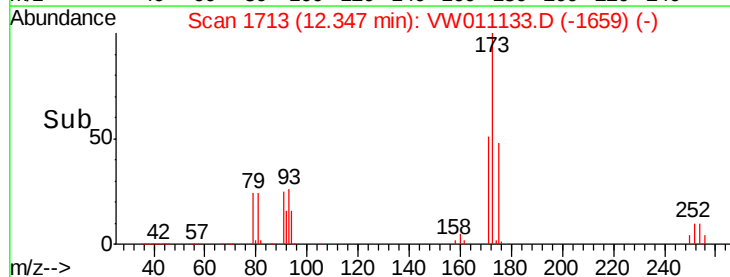
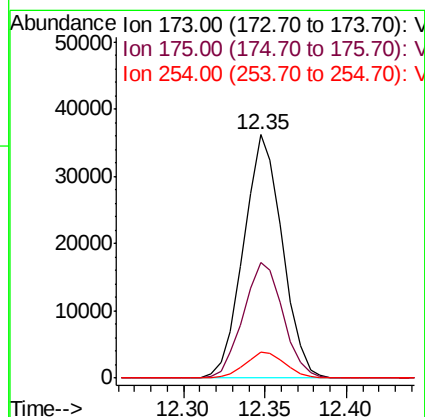
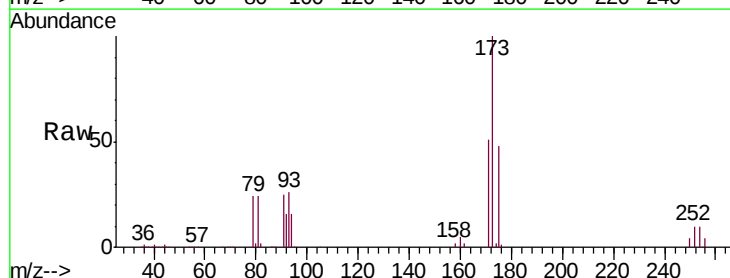
Tgt Ion: 173 Resp: 59779

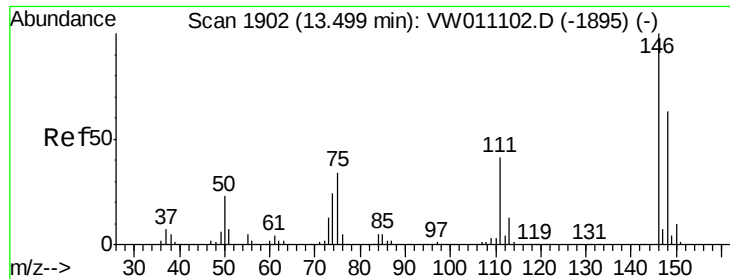
Ion Ratio Lower Upper

173 100

175 48.8 39.0 58.6

254 10.8 8.5 12.7

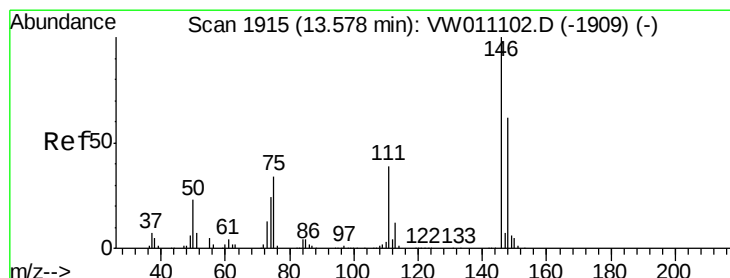
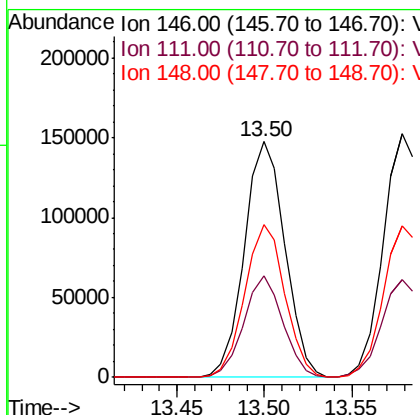
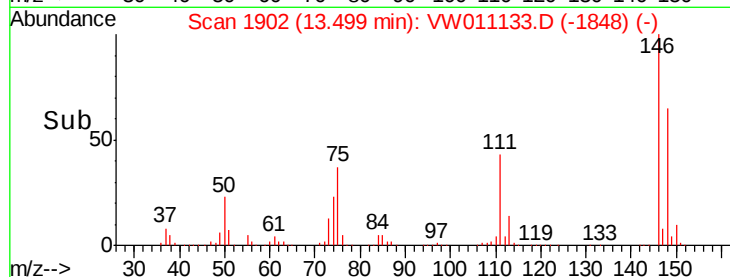
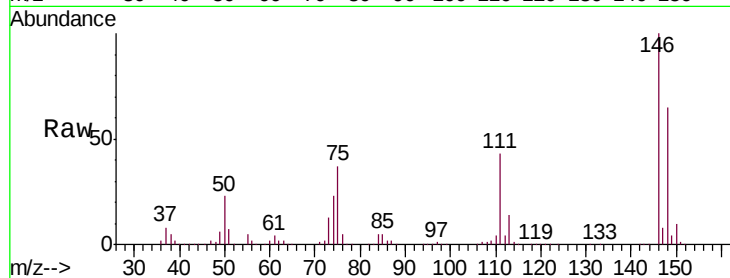




#63
 1,3-Dichlorobenzene
 Concen: 23.138 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW011133.D
 Acq: 03 Jul 2019 09:21

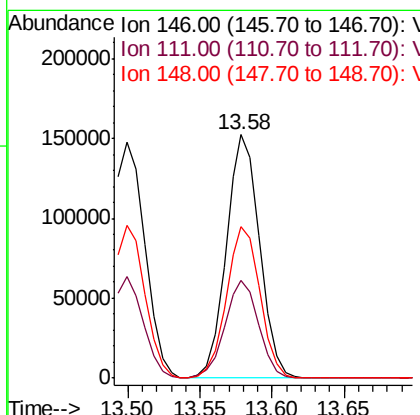
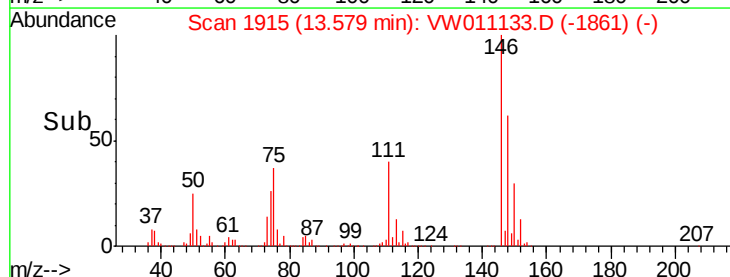
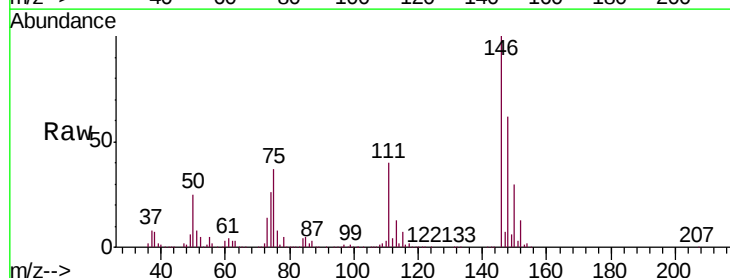
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02515

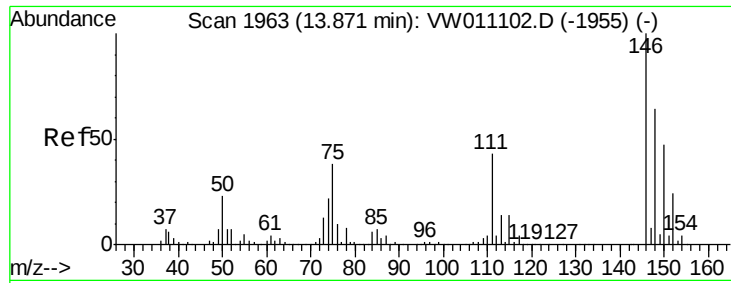
Tgt Ion:146 Resp: 237703
 Ion Ratio Lower Upper
 146 100
 111 42.9 29.0 53.8
 148 64.7 44.4 82.5



#64
 1,4-Dichlorobenzene
 Concen: 23.314 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW011133.D
 Acq: 03 Jul 2019 09:21

Tgt Ion:146 Resp: 245189
 Ion Ratio Lower Upper
 146 100
 111 40.2 27.5 51.1
 148 62.4 43.8 81.3





#65

1,2-Dichlorobenzene

Concen: 23.590 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW011133.D

Acq: 03 Jul 2019 09:21

Instrument :

MSVOA_W

ClientSampleId :

VSTD02515

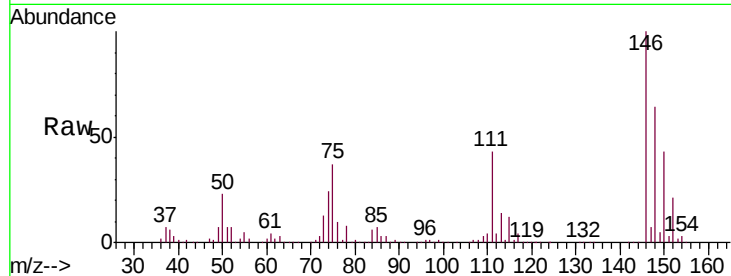
Tgt Ion:146 Resp: 225588

Ion Ratio Lower Upper

146 100

111 43.4 34.1 51.1

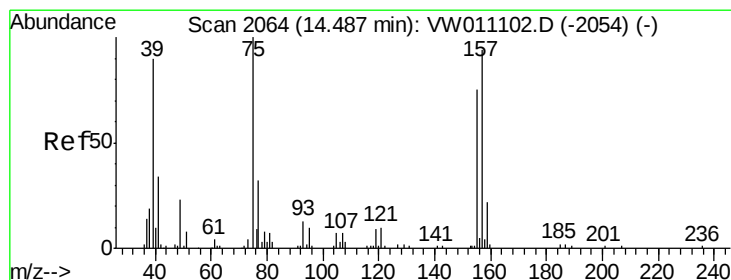
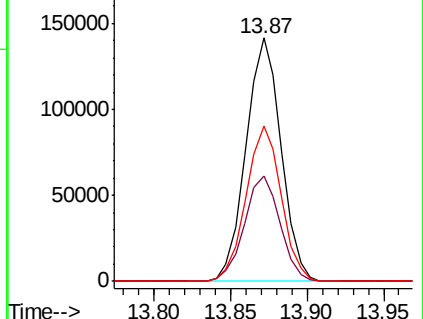
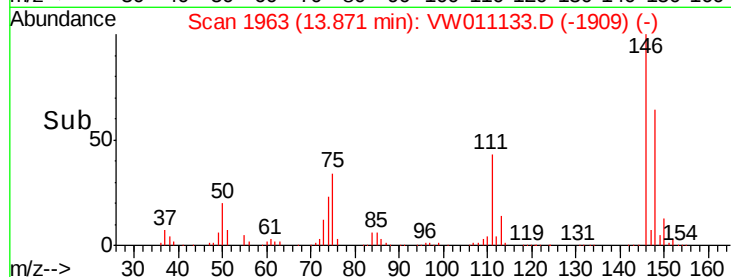
148 63.7 51.0 76.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 25.274 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW011133.D

Acq: 03 Jul 2019 09:21

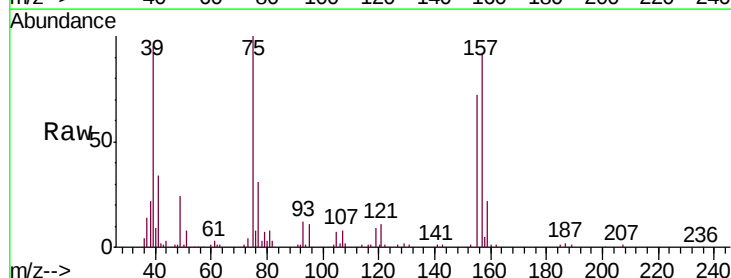
Tgt Ion: 75 Resp: 23729

Ion Ratio Lower Upper

75 100

157 92.1 75.3 112.9

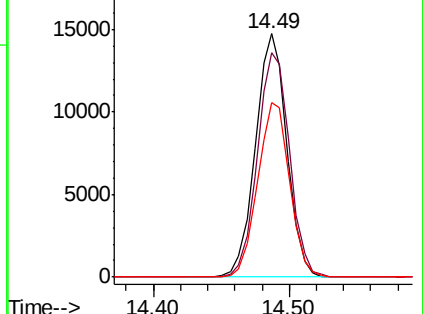
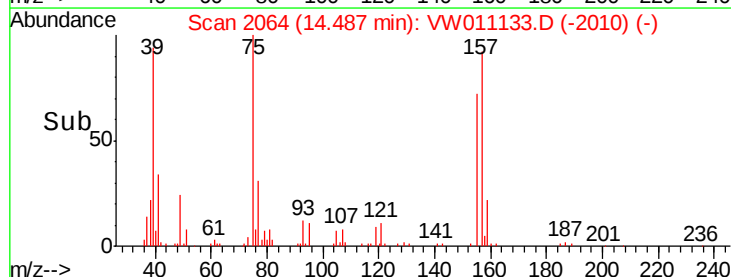
155 71.7 60.2 90.2

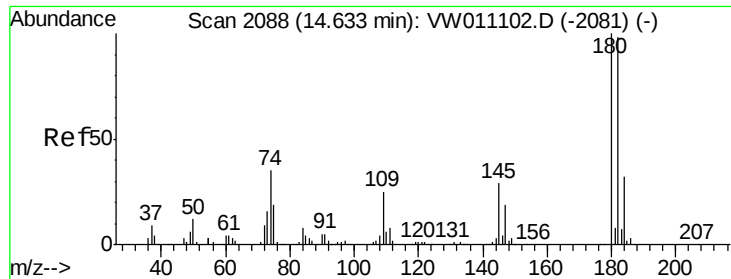


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

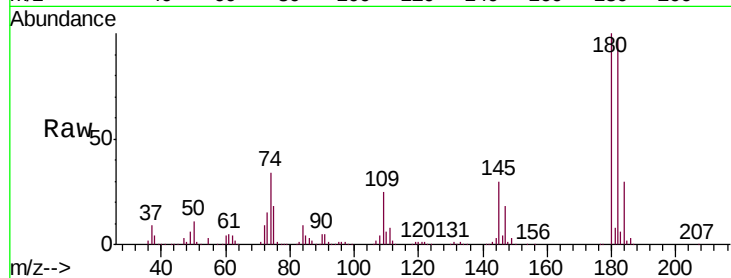




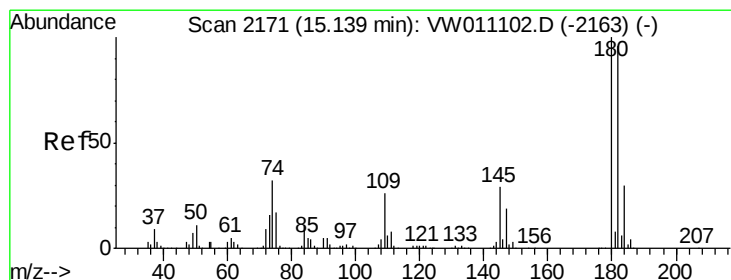
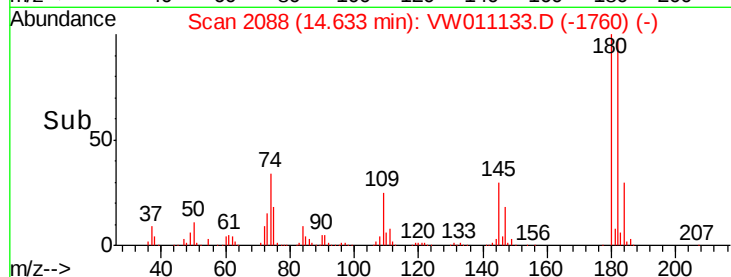
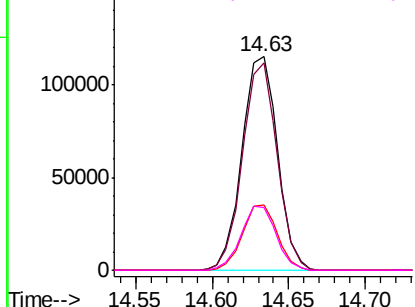
#67
 1,3,5-Trichlorobenzene
 Concen: 23.940 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. -0.00 min
 Lab File: VW011133.D
 Acq: 03 Jul 2019 09:21

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02515

Tgt Ion:180 Resp: 186347
 Ion Ratio Lower Upper
 180 100
 182 94.6 77.0 115.4
 184 30.0 24.3 36.5
 145 29.7 24.2 36.2

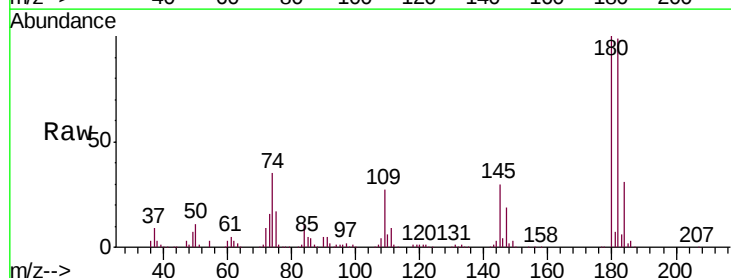


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

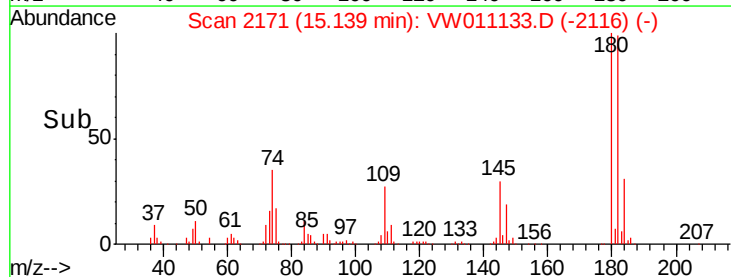
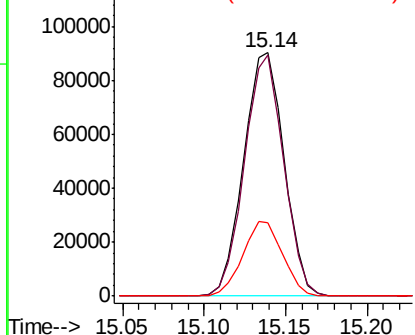


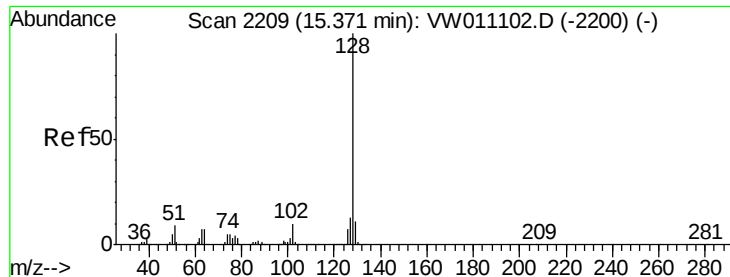
#68
 1,2,4-trichlorobenzene
 Concen: 23.947 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.01 min
 Lab File: VW011133.D
 Acq: 03 Jul 2019 09:21

Tgt Ion:180 Resp: 156160
 Ion Ratio Lower Upper
 180 100
 182 95.7 77.0 115.6
 145 30.3 24.5 36.7



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





#69

Naphthalene

Concen: 26.017 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW011133.D

Acq: 03 Jul 2019 09:21

Instrument :

MSVOA_W

ClientSampleId :

VSTD02515

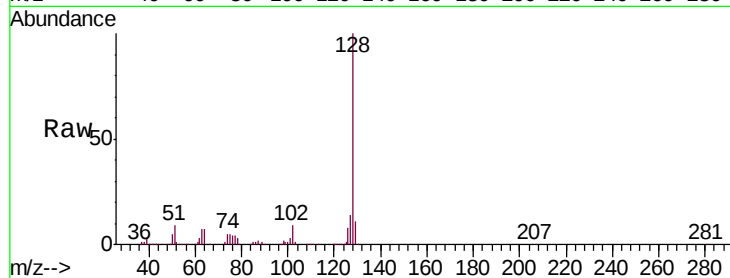
Tgt Ion:128 Resp: 355308

Ion Ratio Lower Upper

128 100

129 11.0 9.0 13.4

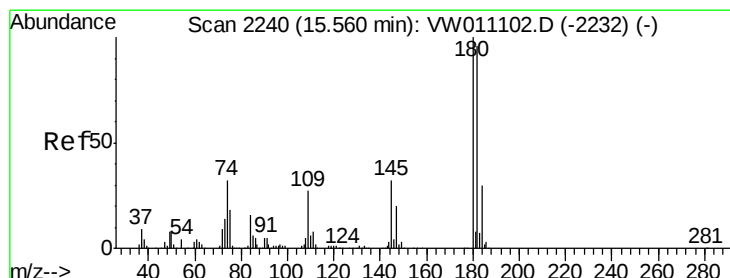
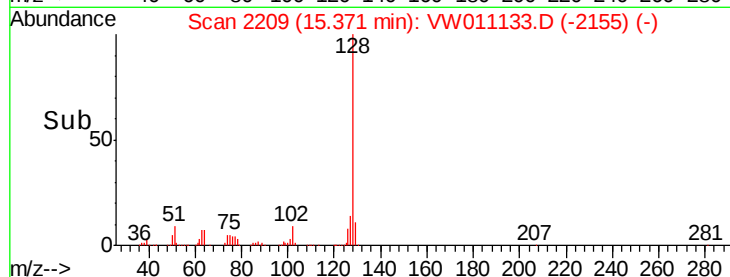
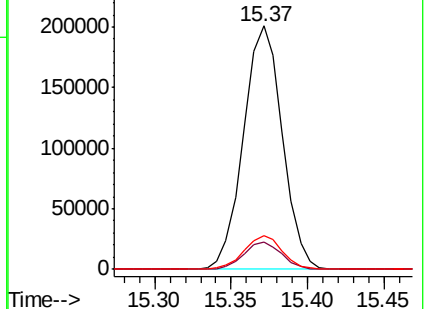
127 13.5 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 24.462 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW011133.D

Acq: 03 Jul 2019 09:21

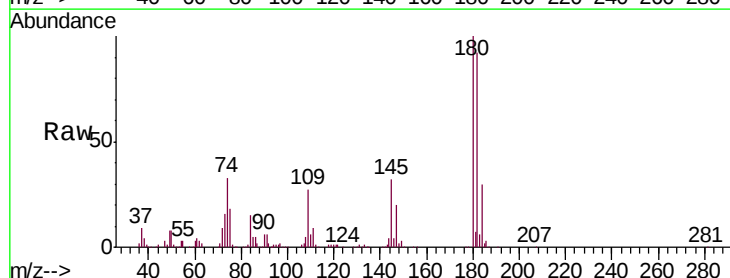
Tgt Ion:180 Resp: 145949

Ion Ratio Lower Upper

180 100

182 95.1 76.4 114.6

145 31.7 25.5 38.3



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

