

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102820\
 Data File : VV019143.D
 Acq On : 28 Oct 2020 19:09
 Operator : SY/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05078

Quant Time: Oct 29 03:18:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM102220WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 29 03:08:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	231525	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	226455	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	124543	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	68104	32.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	64.76%
7) Chloroethane-d5	1.58	69	59510	35.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	70.30%
11) 1,1-Dichloroethene-d2	2.12	63	149390	37.92	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	75.84%
21) 2-Butanone-d5	3.91	46	112815	79.75	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	79.75%
24) Chloroform-d	4.38	84	159187	43.27	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.54%
26) 1,2-Dichloroethane-d4	5.06	65	108973	44.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.12%
32) Benzene-d6	5.07	84	283613	40.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	81.90%
36) 1,2-Dichloropropane-d6	6.09	67	85647	38.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	76.34%
41) Toluene-d8	7.34	98	268638	43.37	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.74%
43) trans-1,3-Dichloropropene-	7.64	79	50182	43.64	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.28%
47) 2-Hexanone-d5	8.11	63	84185	86.29	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	86.29%
57) 1,1,2,2-Tetrachloroethane-	10.23	84	121154	40.57	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	81.14%
64) 1,2-Dichlorobenzene-d4	11.65	152	118678	45.43	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.86%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	82354	45.666	ug/L	98
3) Chloromethane	1.25	50	77875	34.722	ug/L	99
5) Vinyl chloride	1.32	62	82611	37.390	ug/L	100
6) Bromomethane	1.53	94	54510	43.118	ug/L	99
8) Chloroethane	1.60	64	53464	38.586	ug/L	99
9) Trichlorofluoromethane	1.76	101	146443	50.390	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	70174	45.403	ug/L	93
12) 1,1-Dichloroethene	2.13	96	68595	44.359	ug/L	81
13) Acetone	2.19	43	84298	87.926	ug/L	98
14) Carbon disulfide	2.31	76	201469	39.516	ug/L	100
15) Methyl Acetate	2.45	43	80054	39.735	ug/L	95
16) Methylene chloride	2.52	84	79612	44.170	ug/L	92
17) trans-1,2-Dichloroethene	2.78	96	75039	45.920	ug/L	93
18) Methyl tert-butyl Ether	2.78	73	258312	48.746	ug/L	97
19) 1,1-Dichloroethane	3.21	63	143660	43.542	ug/L	97
20) cis-1,2-Dichloroethene	3.94	96	81705	46.759	ug/L	93
22) 2-Butanone	4.00	43	107994	82.169	ug/L	90

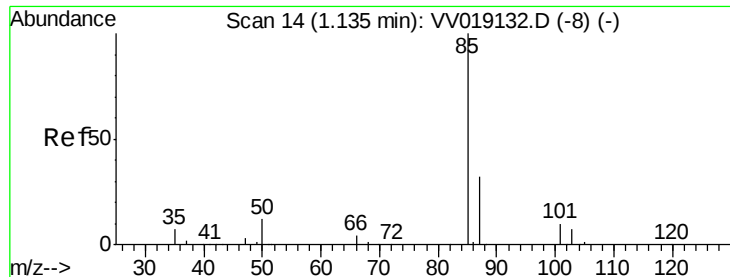
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.27	128	43499	48.902	ug/L	85
25) Chloroform	4.40	83	153856	47.338	ug/L	97
27) 1,2-Dichloroethane	5.15	62	132119	48.981	ug/L	100
29) Cyclohexane	4.70	56	114108	42.097	ug/L	90
30) 1,1,1-Trichloroethane	4.64	97	145977	51.773	ug/L	98
31) Carbon tetrachloride	4.85	117	128137	52.131	ug/L	99
33) Benzene	5.13	78	310239	44.751	ug/L	100
34) Trichloroethene	5.94	95	81594	46.577	ug/L	94
35) Methylcyclohexane	6.15	83	113958	47.544	ug/L	93
37) 1,2-Dichloropropane	6.20	63	78602	41.185	ug/L	98
38) Bromodichloromethane	6.53	83	116581	48.277	ug/L	100
39) cis-1,3-Dichloropropene	7.05	75	131824	46.737	ug/L	98
40) 4-Methyl-2-pentanone	7.24	43	221750	86.123	ug/L #	95
42) Toluene	7.41	91	339419	47.699	ug/L	99
44) trans-1,3-Dichloropropene	7.67	75	136687	48.848	ug/L	99
45) 1,1,2-Trichloroethane	7.86	97	77683	46.085	ug/L	96
46) Tetrachloroethene	8.00	164	70687	52.581	ug/L	97
48) 2-Hexanone	8.16	43	171864	86.500	ug/L #	95
49) Dibromochloromethane	8.27	129	95142	51.639	ug/L	98
50) 1,2-Dibromoethane	8.37	107	83810	47.912	ug/L	99
51) Chlorobenzene	8.90	112	223119	48.888	ug/L	97
52) Ethylbenzene	9.03	91	378159	49.145	ug/L	99
53) m,p-Xylene	9.16	106	142780	50.688	ug/L	99
54) o-xylene	9.56	106	137709	50.774	ug/L	100
55) Styrene	9.58	104	247791	51.505	ug/L	99
56) Isopropylbenzene	9.95	105	372167	52.186	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.26	83	119794	43.190	ug/L	98
59) 1,2,3-Trichloropropane	10.29	75	101549	45.505	ug/L	100
61) Bromoform	9.75	173	74736	53.285	ug/L	99
62) 1,3-Dichlorobenzene	11.20	146	187823	50.255	ug/L	98
63) 1,4-Dichlorobenzene	11.29	146	192146	49.200	ug/L	99
65) 1,2-Dichlorobenzene	11.67	146	187805	49.838	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.45	75	31482	47.287	ug/L	87
67) 1,3,5-Trichlorobenzene	12.67	180	137825	54.005	ug/L	98
68) 1,2,4-trichlorobenzene	13.28	180	131448	54.621	ug/L	98
69) Naphthalene	13.52	128	395214	53.300	ug/L	100
70) 1,2,3-Trichlorobenzene	13.77	180	131655	53.994	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 45.666 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

Instrument :

MSVOA_V

ClientSampleId :

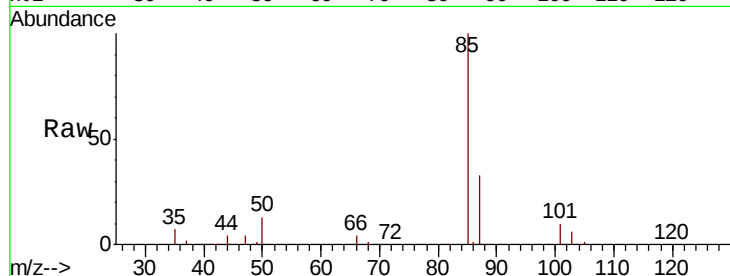
VSTD05078

Tot Ion: 85 Resp: 82354

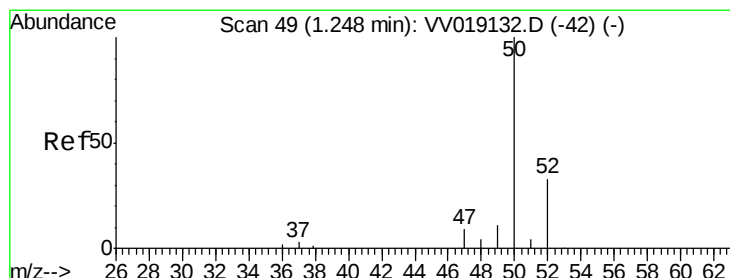
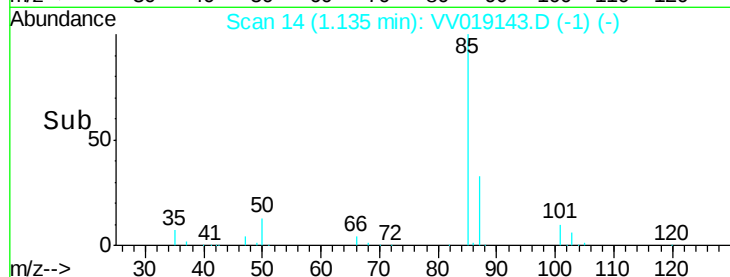
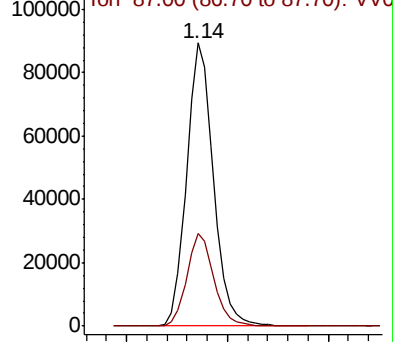
Ion Ratio Lower Upper

85 100

87 32.8 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VV019143.D (-1) (-)



#3

Chloromethane

Concen: 34.722 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV019143.D

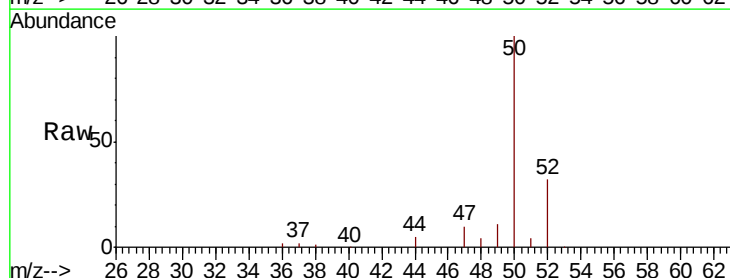
Acq: 28 Oct 2020 19:09

Tgt Ion: 50 Resp: 77875

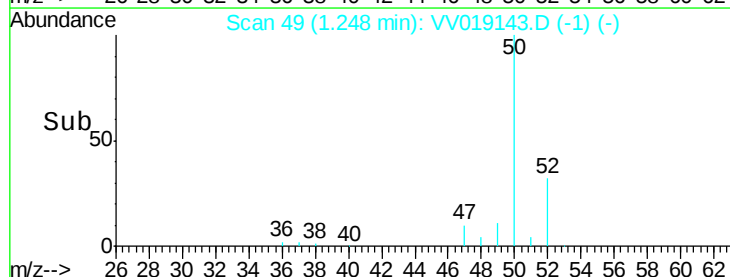
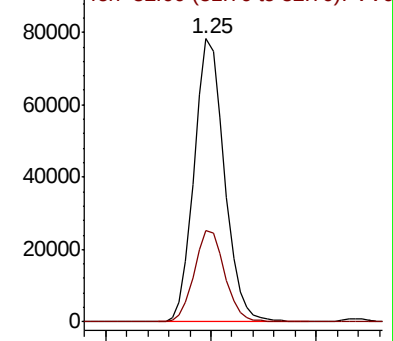
Ion Ratio Lower Upper

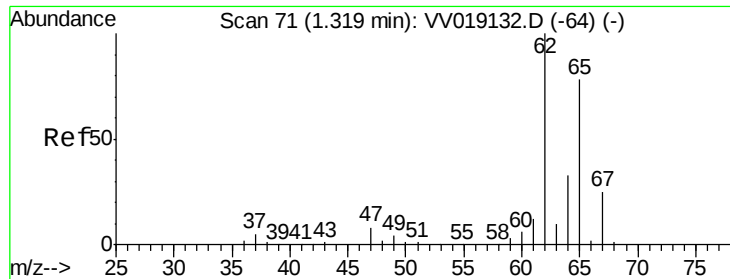
50 100

52 32.1 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VV019143.D (-1) (-)





#5

Vinyl chloride

Concen: 37.390 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

Instrument :

MSVOA_V

ClientSampleId :

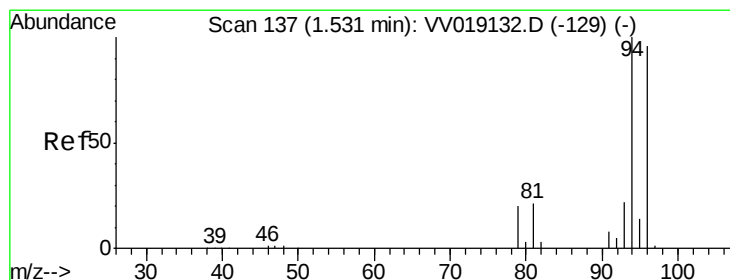
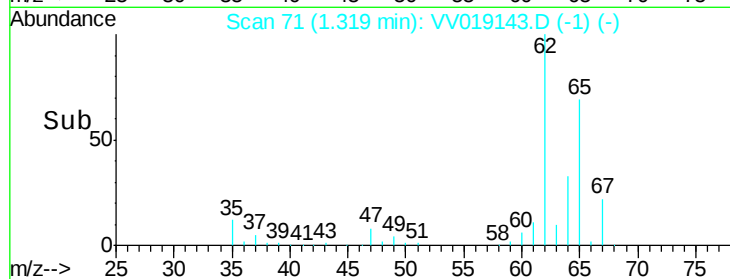
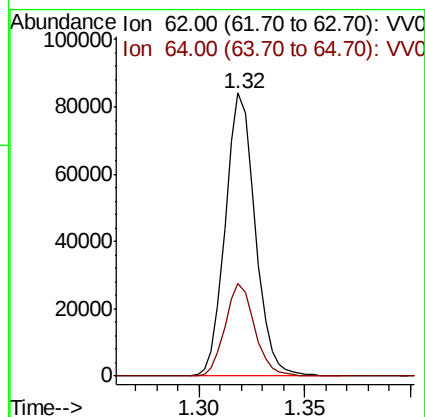
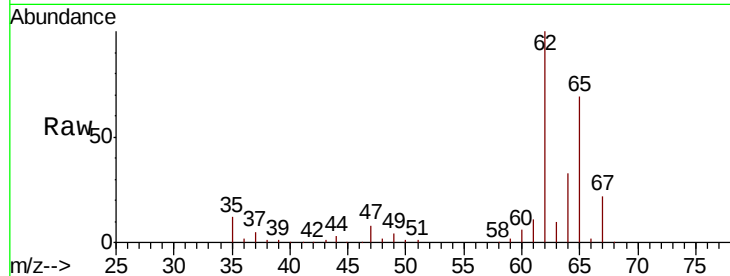
VSTD05078

Tot Ion: 62 Resp: 82611

Ion Ratio Lower Upper

62 100

64 32.5 22.9 42.5



#6

Bromomethane

Concen: 43.118 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV019143.D

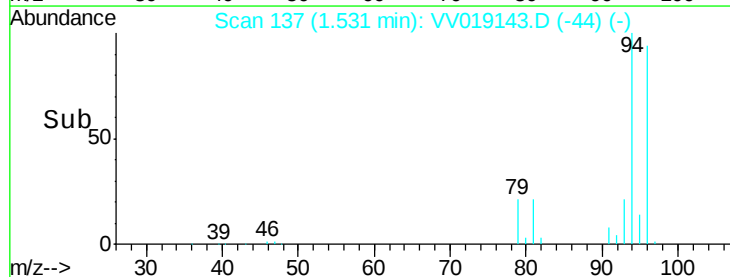
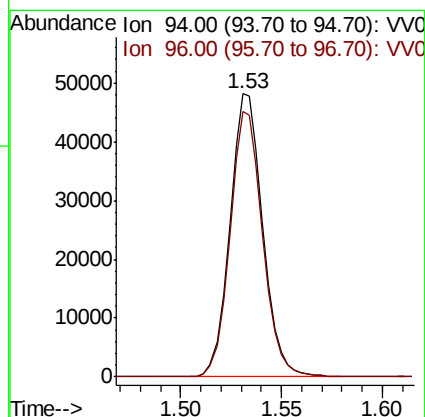
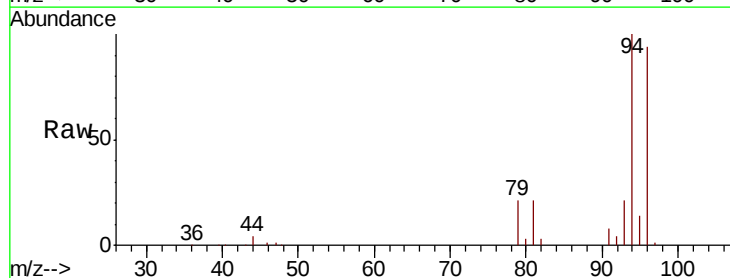
Acq: 28 Oct 2020 19:09

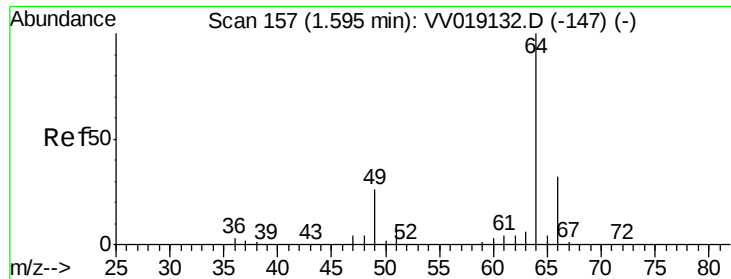
Tgt Ion: 94 Resp: 54510

Ion Ratio Lower Upper

94 100

96 93.8 65.3 121.3

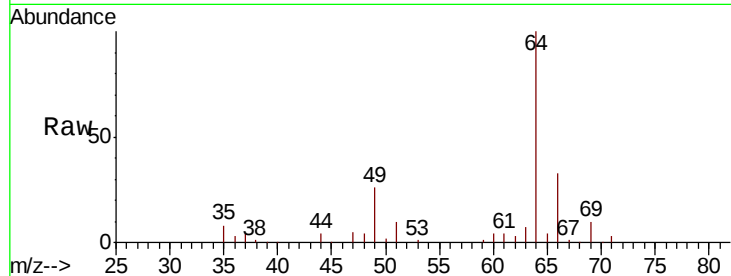




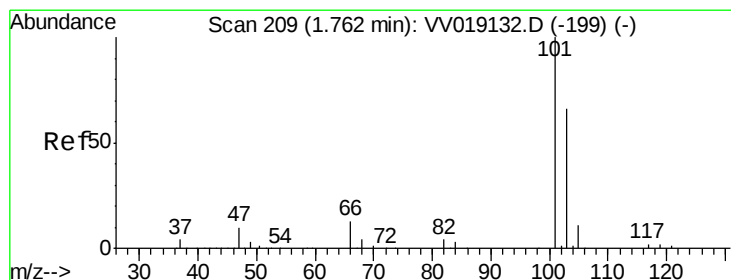
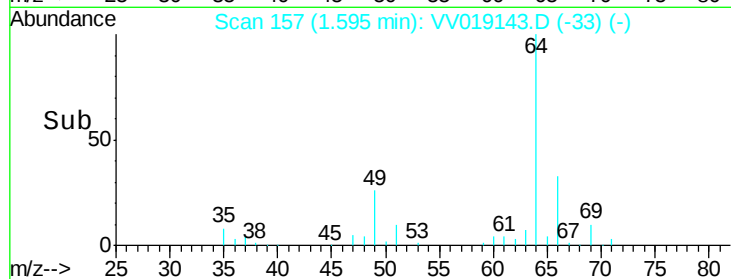
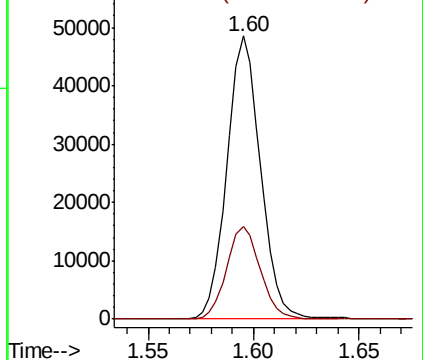
#8
Chloroethane
Concen: 38.586 ug/L
RT: 1.60 min Scan# 157
Delta R.T. -0.00 min
Lab File: VV019143.D
Acq: 28 Oct 2020 19:09

Instrument :
MSVOA_V
ClientSampleId :
VSTD05078

Tot Ion: 64 Resp: 53464
Ion Ratio Lower Upper
64 100
66 32.8 22.5 41.9

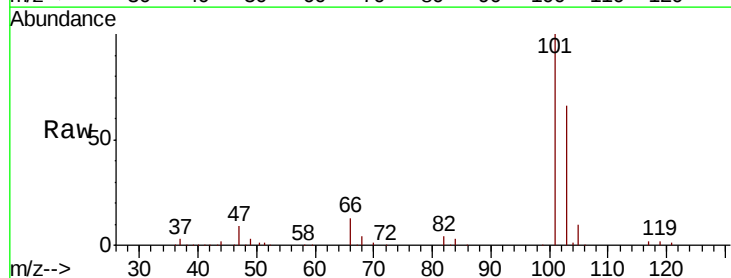


Abundance Ion 64.00 (63.70 to 64.70): VV019143.D (-147) (-)
Ion 66.00 (65.70 to 66.70): VV019143.D (-147) (-)

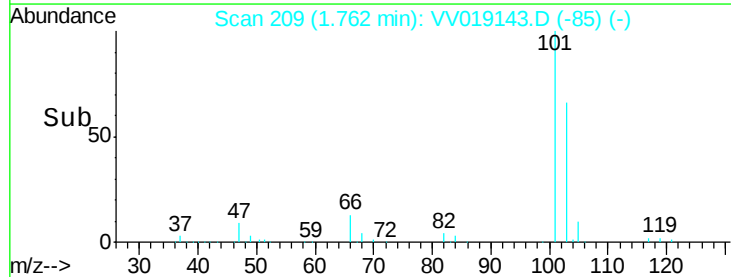
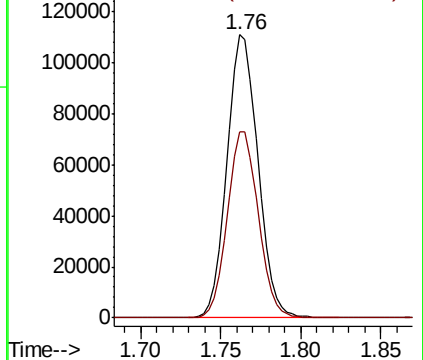


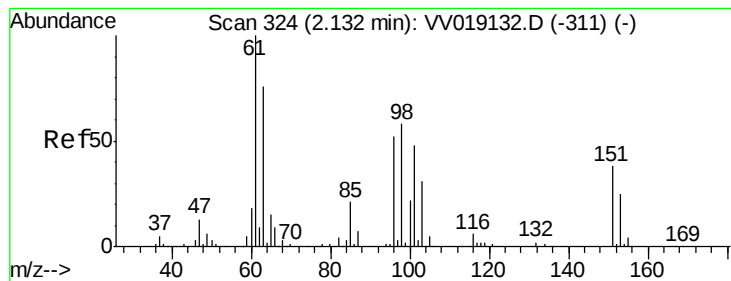
#9
Trichlorofluoromethane
Concen: 50.390 ug/L
RT: 1.76 min Scan# 209
Delta R.T. -0.00 min
Lab File: VV019143.D
Acq: 28 Oct 2020 19:09

Tgt Ion: 101 Resp: 146443
Ion Ratio Lower Upper
101 100
103 65.8 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): VV019143.D (-199) (-)
Ion 103.00 (102.70 to 103.70): VV019143.D (-199) (-)





#10

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

Concen: 45.403 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

Instrument :

MSVOA_V

ClientSampled :

VSTD05078

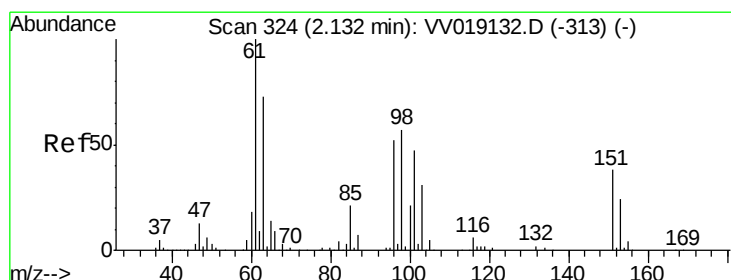
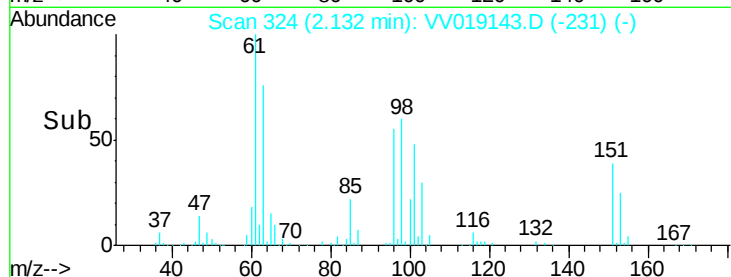
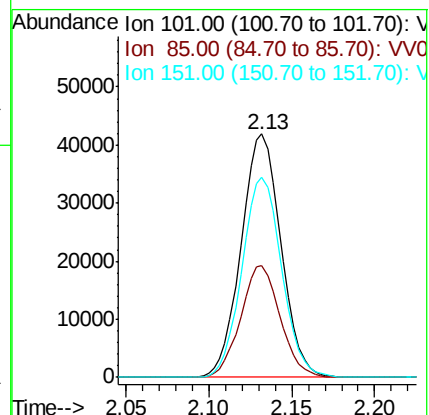
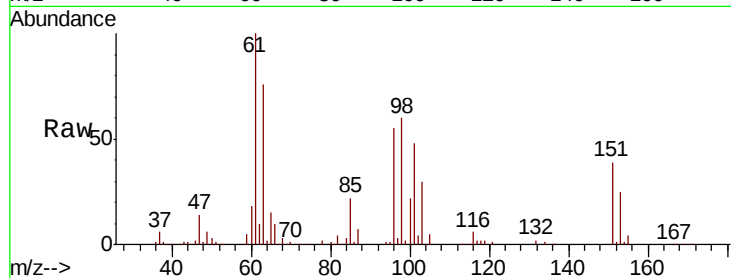
Tot Ion:101 Resp: 70174

Ion Ratio Lower Upper

101 100

85 45.6 36.9 55.3

151 82.2 58.2 87.2



#12

1,1-Dichloroethene

Concen: 44.359 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

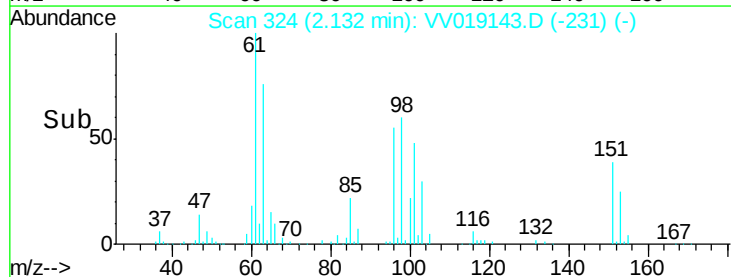
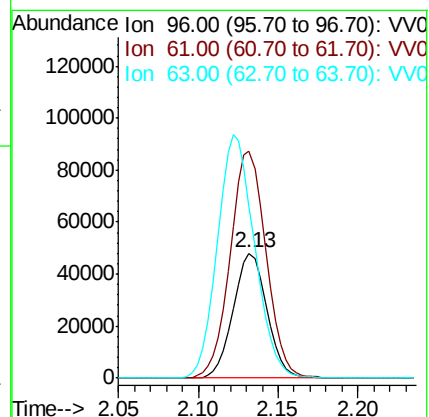
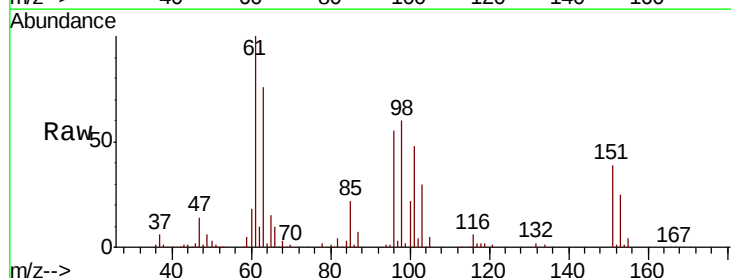
Tgt Ion: 96 Resp: 68595

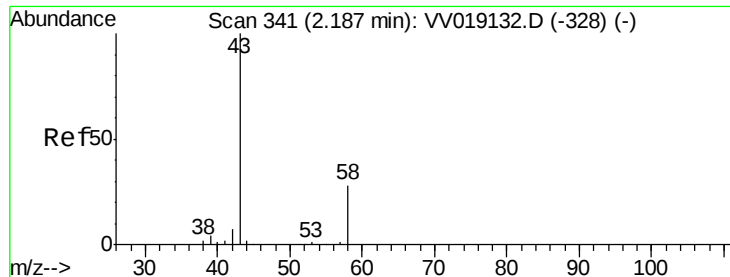
Ion Ratio Lower Upper

96 100

61 182.7 138.7 257.7

63 138.4 126.3 234.6





#13

Acetone

Concen: 87.926 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.01 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

Instrument :

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ClientSampleId :

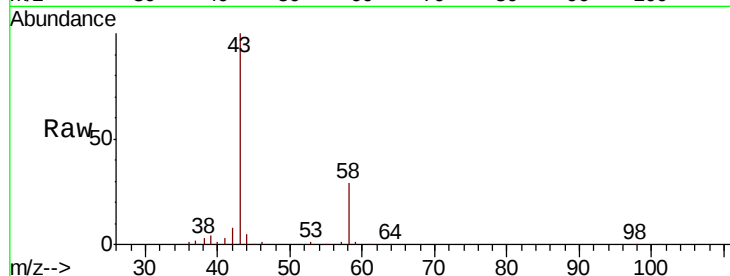
VSTD05078

Tot Ion: 43 Resp: 84298

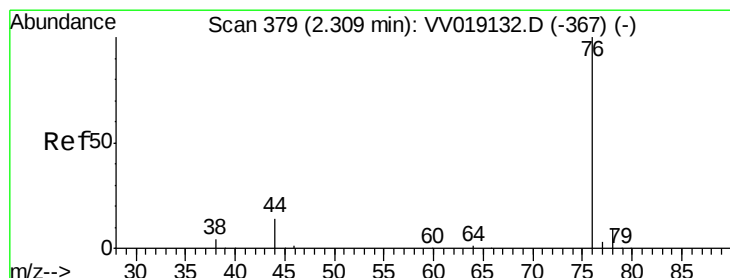
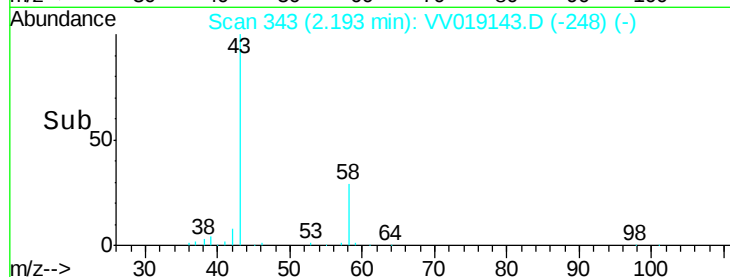
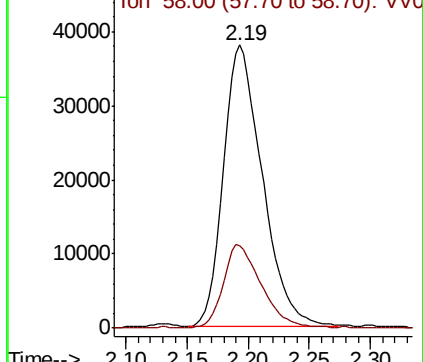
Ion Ratio Lower Upper

43 100

58 29.2 0.0 60.2



Abundance Ion 43.00 (42.70 to 43.70): VV019143.D (-248) (-)



#14

Carbon disulfide

Concen: 39.516 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV019143.D

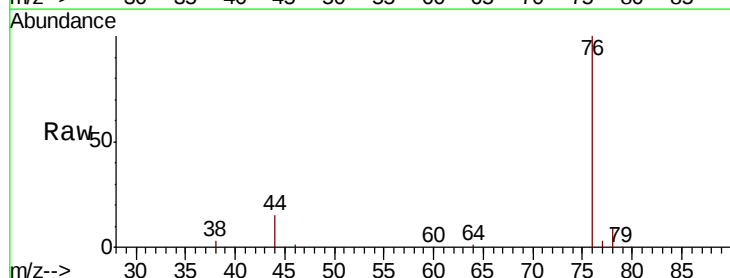
Acq: 28 Oct 2020 19:09

Tgt Ion: 76 Resp: 201469

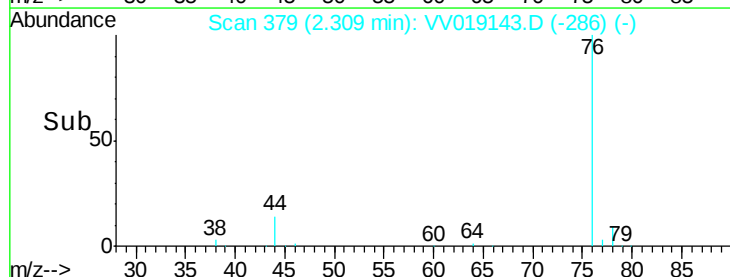
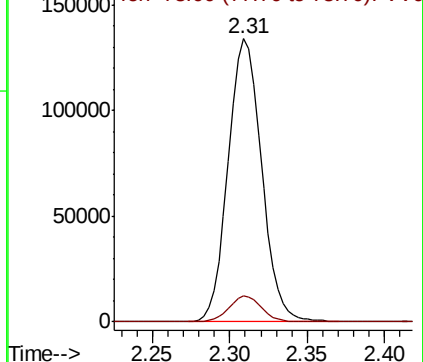
Ion Ratio Lower Upper

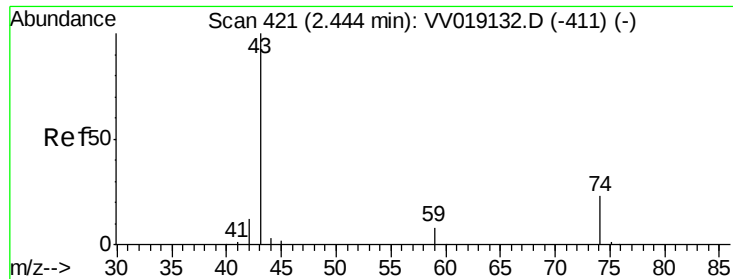
76 100

78 9.1 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV019143.D (-286) (-)





#15

Methyl Acetate

Concen: 39.735 ug/L

RT: 2.45 min Scan# 422

Delta R.T. 0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

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ClientSampleId :

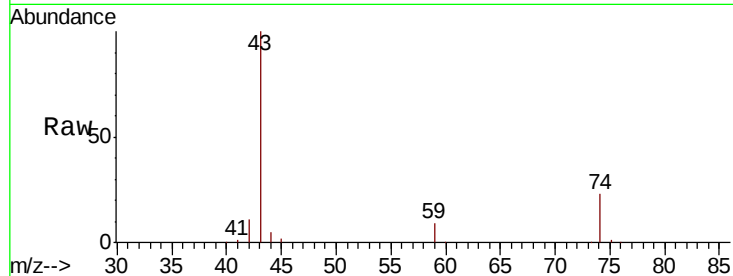
VSTD05078

Tot Ion: 43 Resp: 80054

Ion Ratio Lower Upper

43 100

74 22.8 16.4 24.6

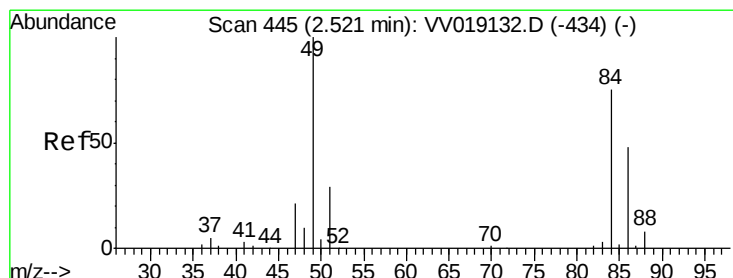
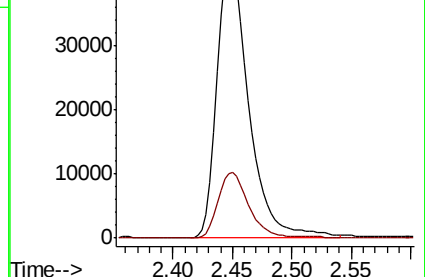
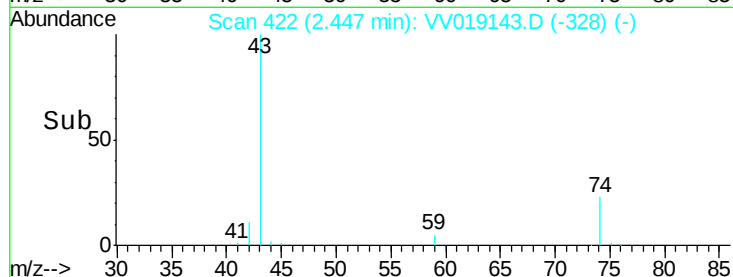


Abundance Ion 43.00 (42.70 to 43.70): VV019143.D (-328) (-)

Ion 74.00 (73.70 to 74.70): VV019143.D (-328) (-)

2.45

Time-->



#16

Methylene chloride

Concen: 44.170 ug/L

RT: 2.52 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

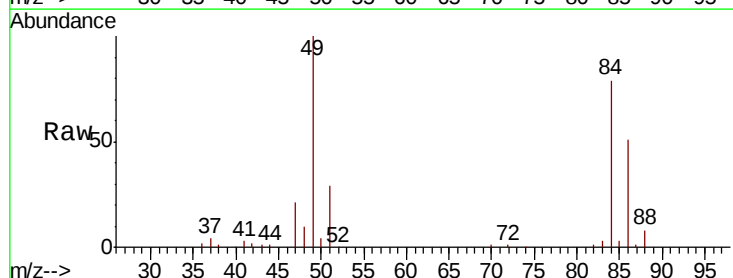
Tgt Ion: 84 Resp: 79612

Ion Ratio Lower Upper

84 100

86 64.3 44.2 82.2

49 126.9 98.0 182.0



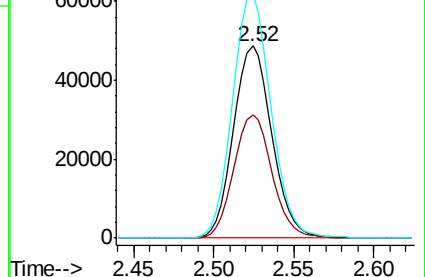
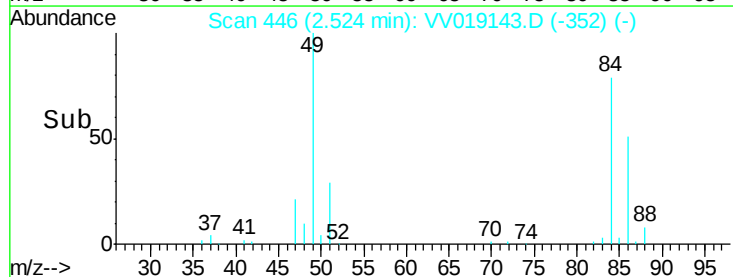
Abundance Ion 84.00 (83.70 to 84.70): VV019143.D (-352) (-)

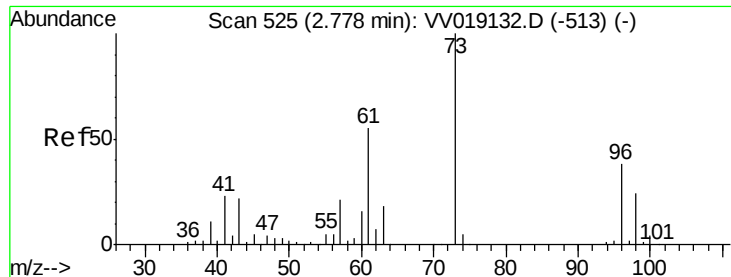
Ion 86.00 (85.70 to 86.70): VV019143.D (-352) (-)

Ion 49.00 (48.70 to 49.70): VV019143.D (-352) (-)

2.52

Time-->





#17

trans-1,2-Dichloroethene

Concen: 45.920 ug/L

RT: 2.78 min Scan# 525

Delta R.T. -0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

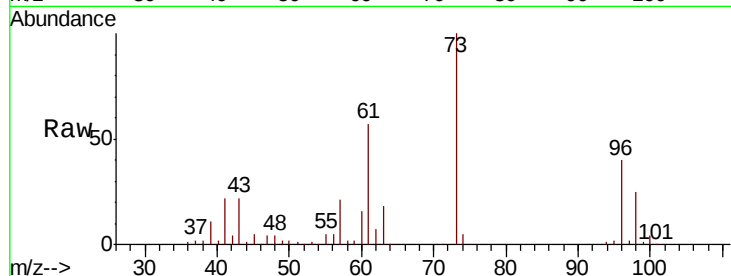
Tot Ion: 96 Resp: 75039

Ion Ratio Lower Upper

96 100

61 143.0 108.6 201.8

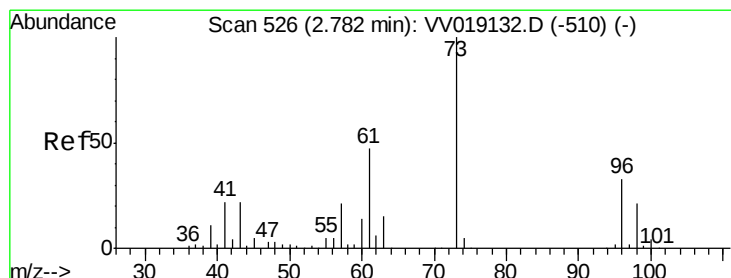
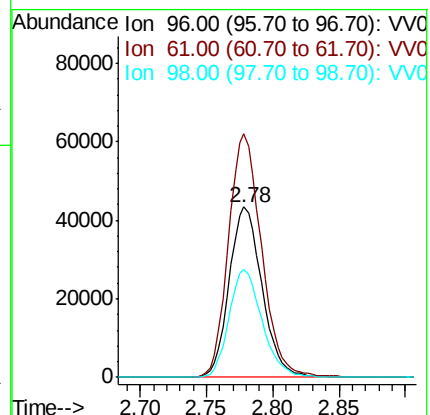
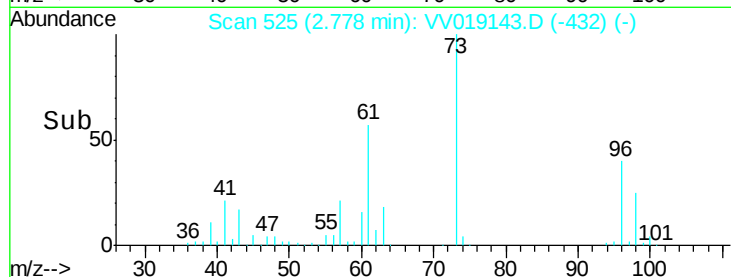
98 63.4 45.7 84.9



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 48.746 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

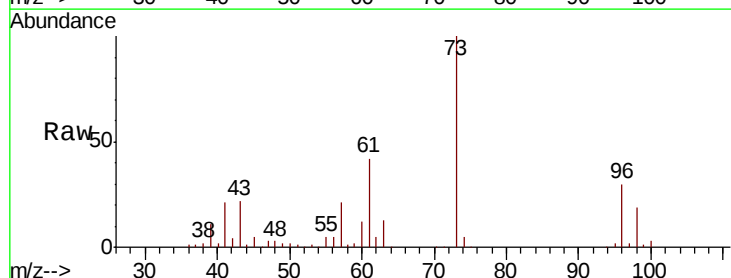
Tgt Ion: 73 Resp: 258312

Ion Ratio Lower Upper

73 100

43 22.1 17.2 25.8

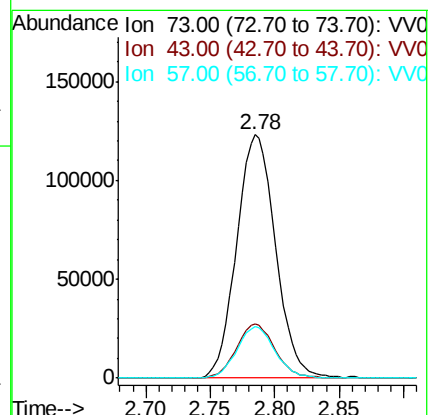
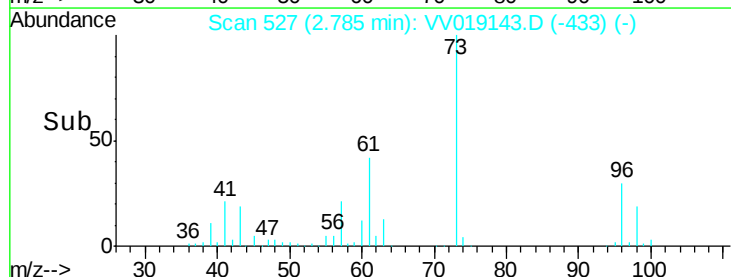
57 20.7 18.5 27.7

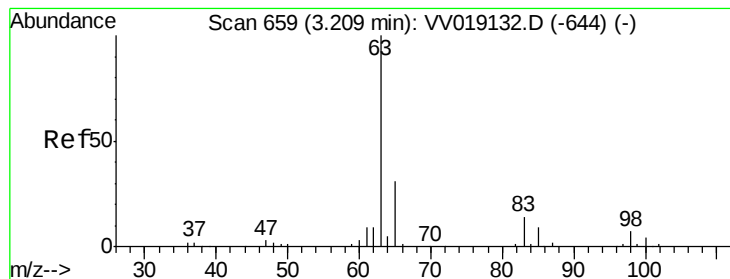


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 43.542 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

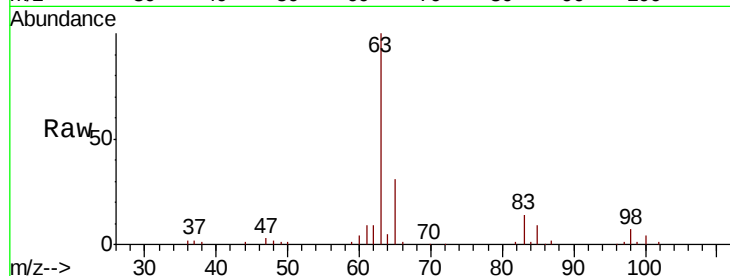
Tot Ion: 63 Resp: 143660

Ion Ratio Lower Upper

63 100

65 30.5 22.7 42.1

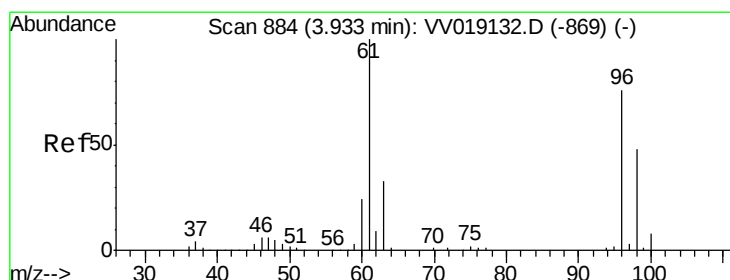
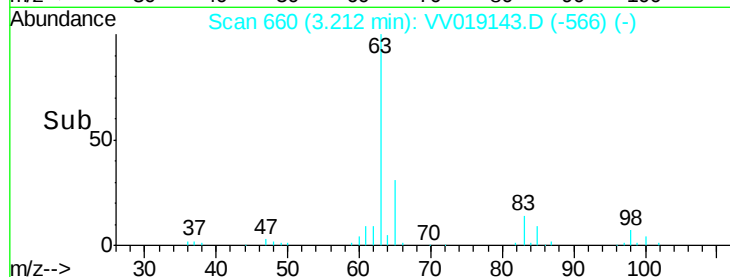
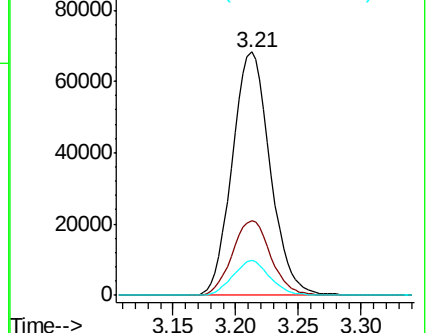
83 14.2 9.0 16.8



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 46.759 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.01 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

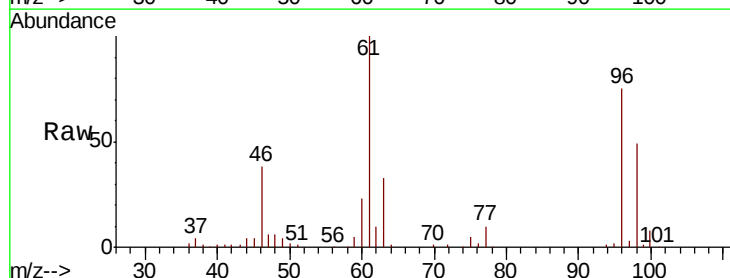
Tgt Ion: 96 Resp: 81705

Ion Ratio Lower Upper

96 100

61 133.2 99.4 184.6

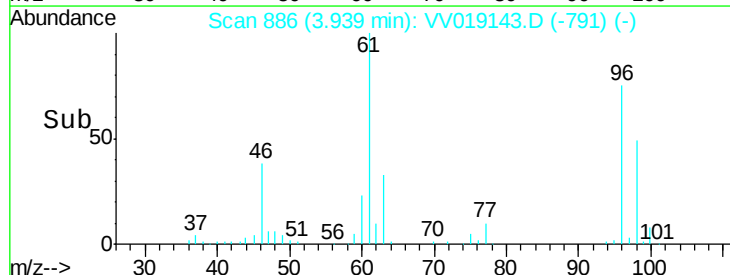
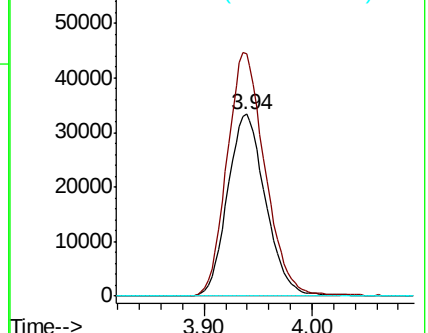
68 0.0 0.0 0.0

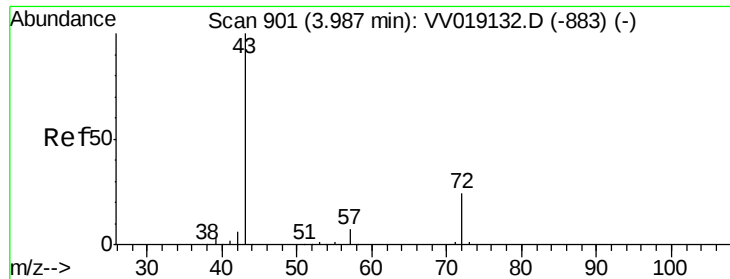


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 82.169 ug/L

RT: 4.00 min Scan# 904

Delta R.T. 0.01 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

Instrument :

MSVOA_V

ClientSampleId :

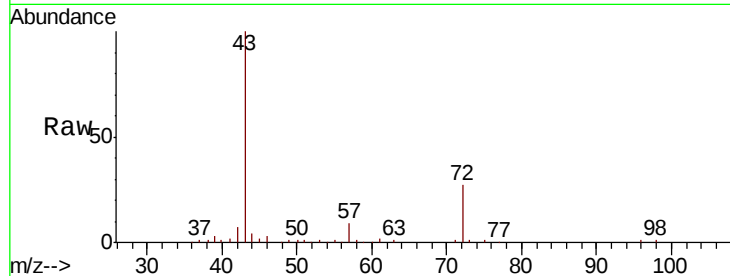
VSTD05078

Tot Ion: 43 Resp: 107994

Ion Ratio Lower Upper

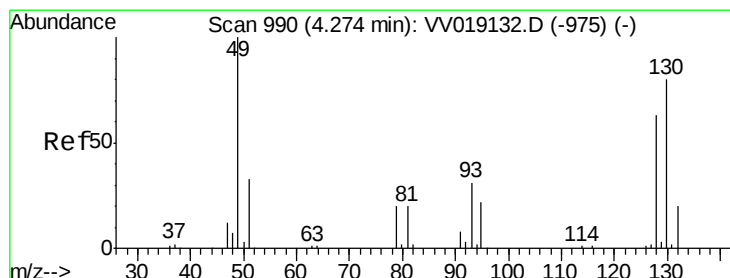
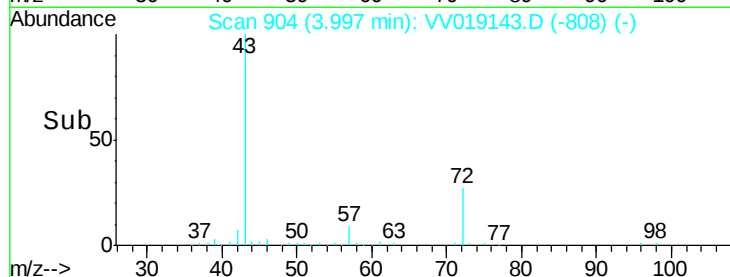
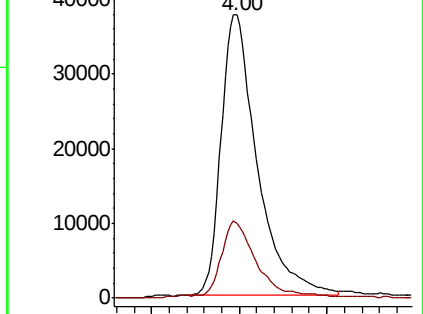
43 100

72 26.5 10.8 32.4



Abundance Ion 43.00 (42.70 to 43.70): VV019143.D (-897) (-)

Ion 72.00 (71.70 to 72.70): VV019143.D (-897) (-)



#23

Bromochloromethane

Concen: 48.902 ug/L

RT: 4.27 min Scan# 990

Delta R.T. -0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

Tgt Ion:128 Resp: 43499

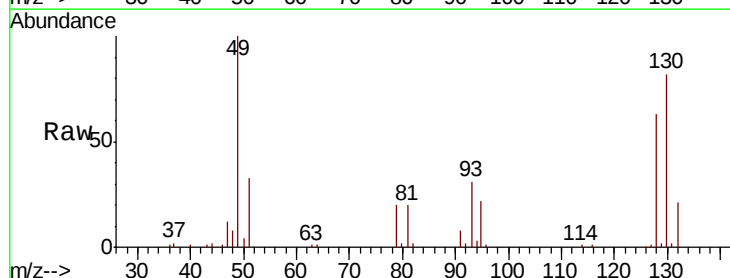
Ion Ratio Lower Upper

128 100

49 157.8 137.1 254.5

130 129.1 92.0 170.9

51 51.9 49.0 73.4

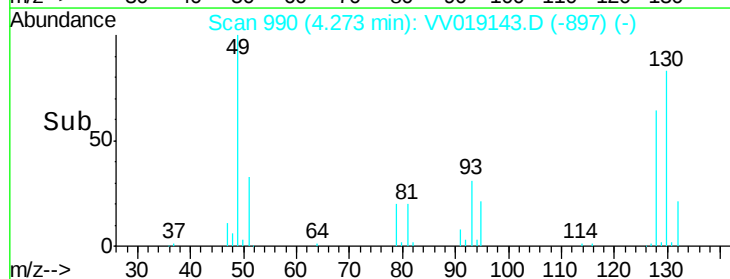
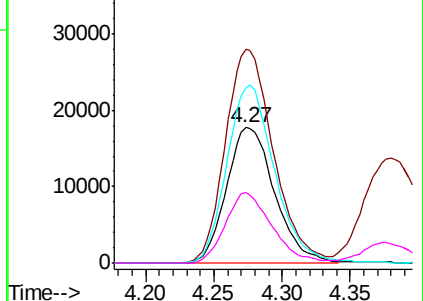


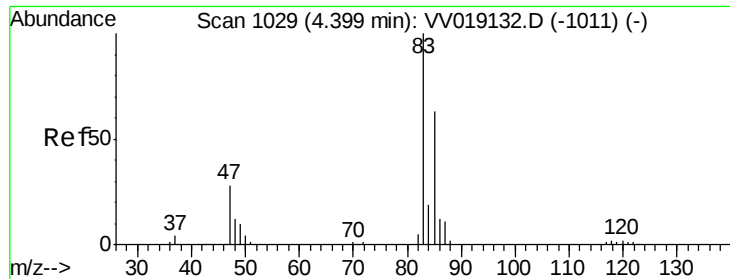
Abundance Ion 128.00 (127.70 to 128.70): VV019143.D (-897) (-)

Ion 49.00 (48.70 to 49.70): VV019143.D (-897) (-)

Ion 130.00 (129.70 to 130.70): VV019143.D (-897) (-)

Ion 51.00 (50.70 to 51.70): VV019143.D (-897) (-)

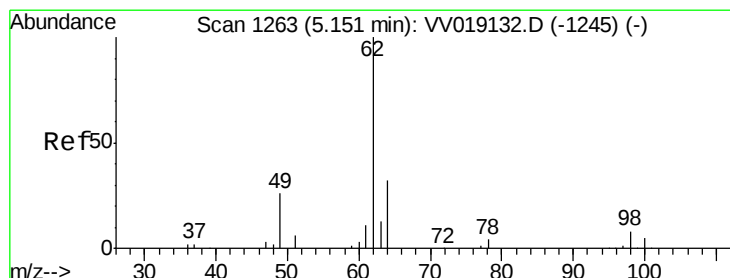
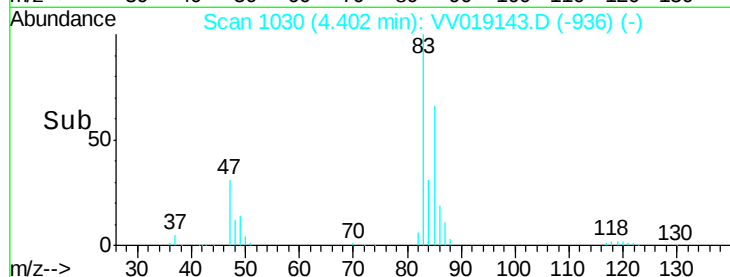
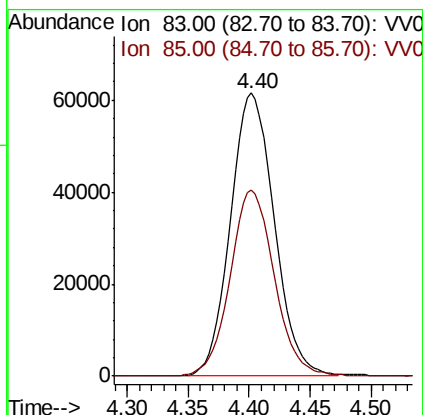
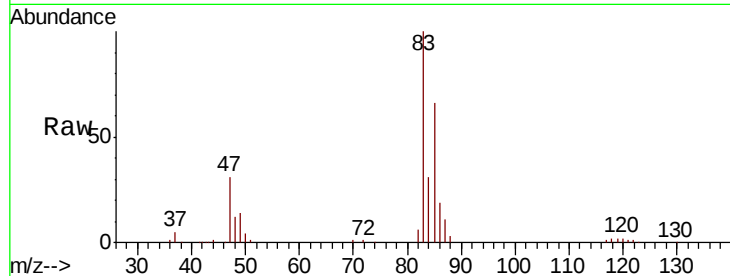




#25
Chloroform
Concen: 47.338 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV019143.D
Acq: 28 Oct 2020 19:09

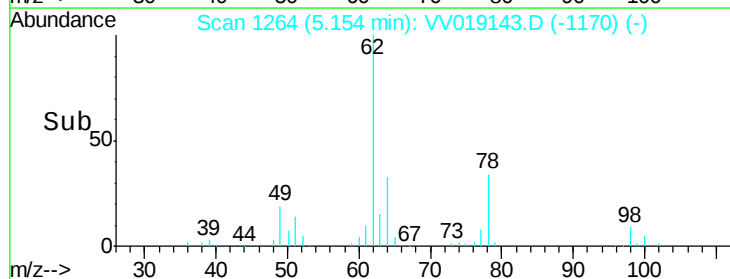
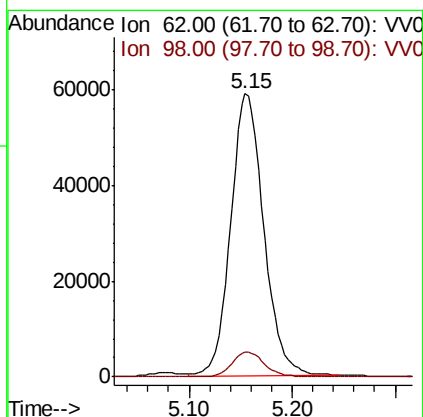
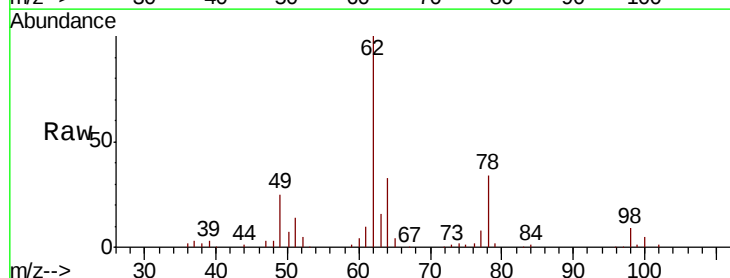
Instrument :
MSVOA_V
ClientSampleId :
VSTD05078

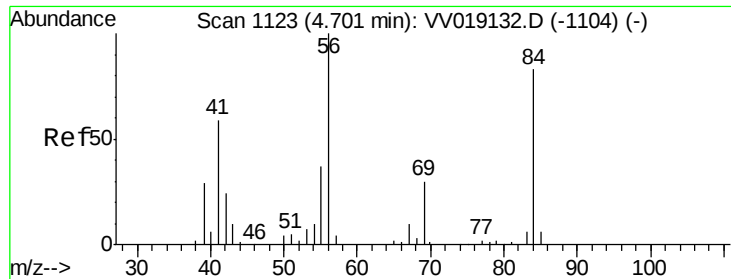
Tot Ion: 83 Resp: 153856
Ion Ratio Lower Upper
83 100
85 65.7 44.5 82.7



#27
1,2-Dichloroethane
Concen: 48.981 ug/L
RT: 5.15 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VV019143.D
Acq: 28 Oct 2020 19:09

Tgt Ion: 62 Resp: 132119
Ion Ratio Lower Upper
62 100
98 8.7 6.9 10.3

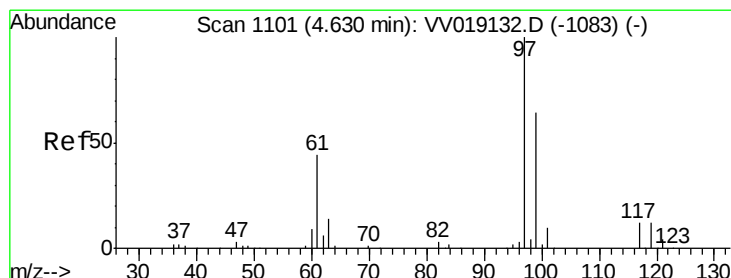
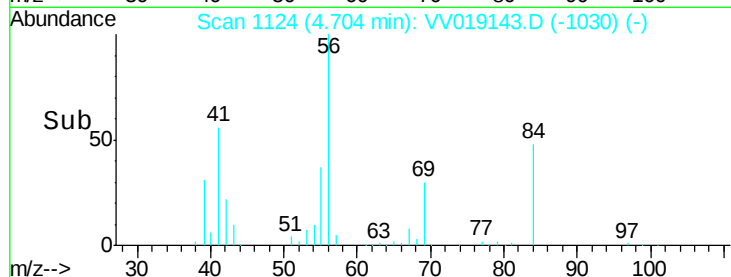
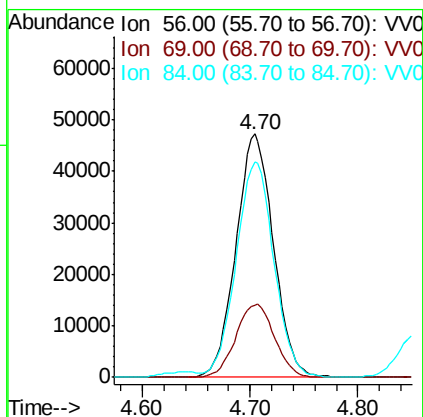
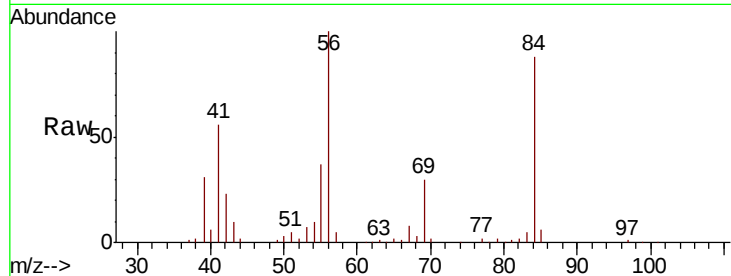




#29
Cyclohexane
Concen: 42.097 ug/L
RT: 4.70 min Scan# 1124
Delta R.T. 0.00 min
Lab File: VV019143.D
Acq: 28 Oct 2020 19:09

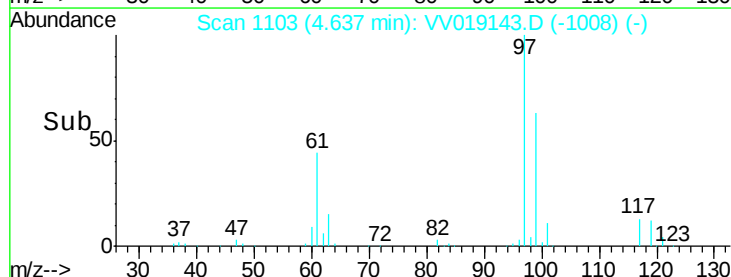
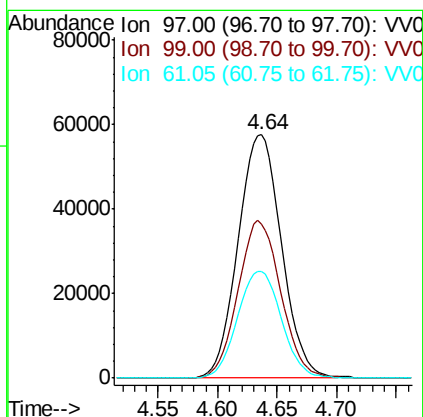
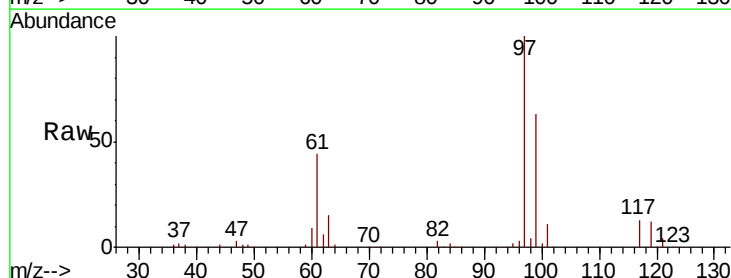
Instrument :
MSVOA_V
ClientSampleId :
VSTD05078

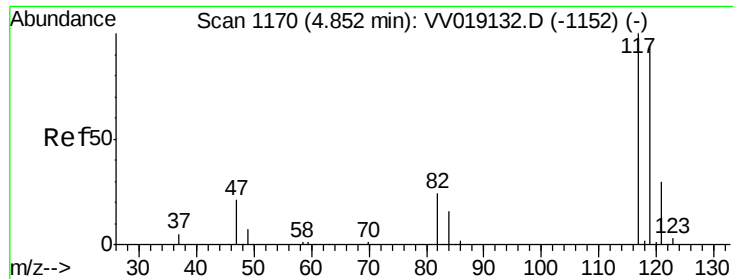
Tot Ion: 56 Resp: 114108
Ion Ratio Lower Upper
56 100
69 31.1 22.7 34.1
84 89.9 63.5 95.3



#30
1,1,1-Trichloroethane
Concen: 51.773 ug/L
RT: 4.64 min Scan# 1103
Delta R.T. 0.01 min
Lab File: VV019143.D
Acq: 28 Oct 2020 19:09

Tgt Ion: 97 Resp: 145977
Ion Ratio Lower Upper
97 100
99 63.6 50.5 75.7
61 44.5 38.1 57.1





#31

Carbon tetrachloride

Concen: 52.131 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

Instrument :

MSVOA_V

ClientSampleId :

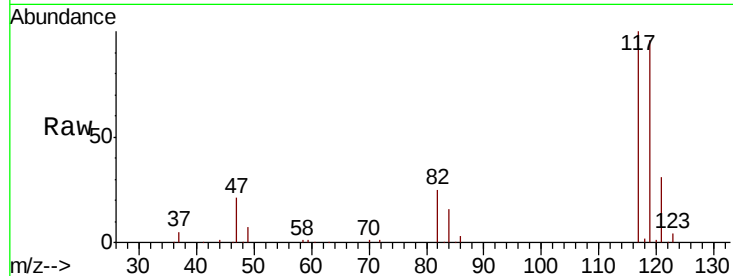
VSTD05078

Tot Ion:117 Resp: 128137

Ion Ratio Lower Upper

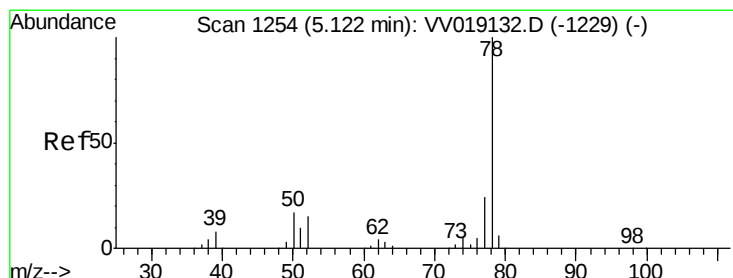
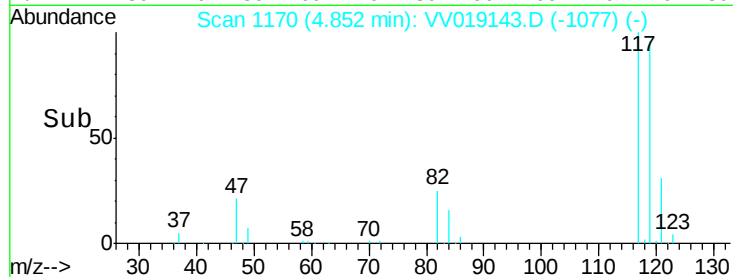
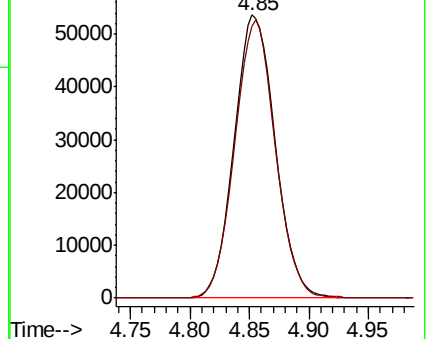
117 100

119 97.1 77.2 115.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 44.751 ug/L

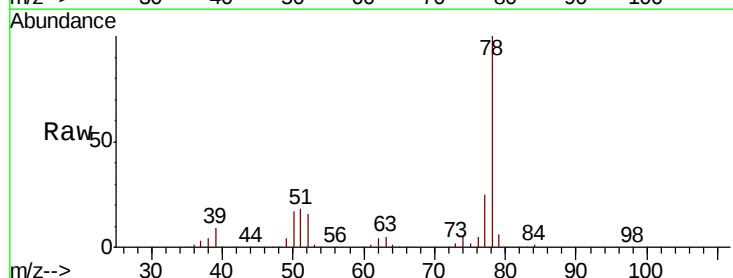
RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

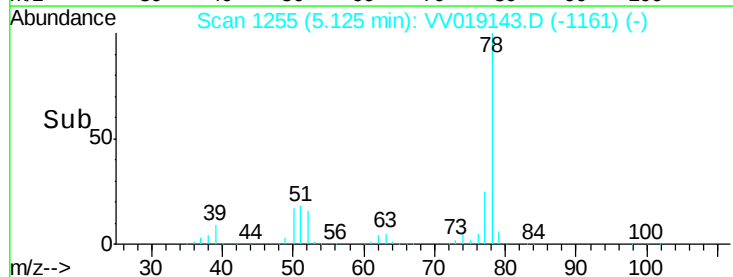
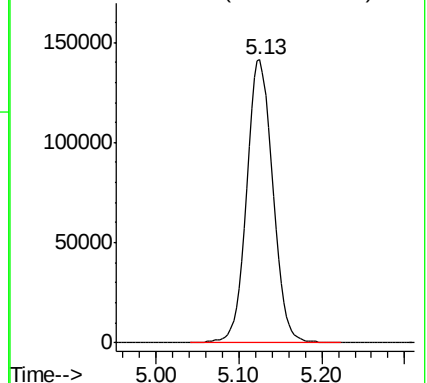
Lab File: VV019143.D

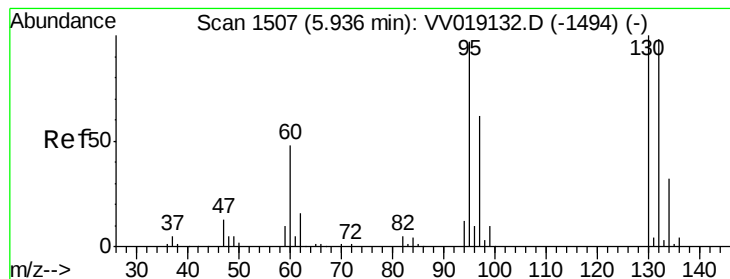
Acq: 28 Oct 2020 19:09

Tgt Ion: 78 Resp: 310239



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 46.577 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

Tot Ion: 95 Resp: 81594

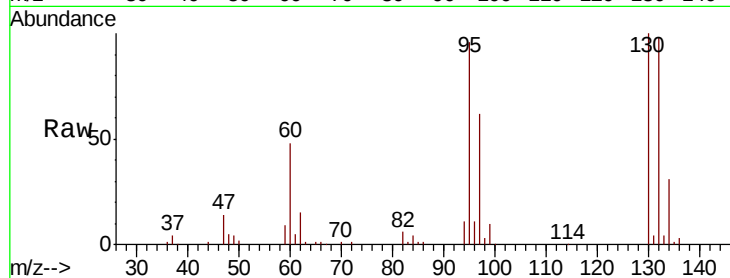
Ion Ratio Lower Upper

95 100

97 64.6 44.6 82.8

132 101.6 66.0 122.6

130 104.2 67.6 125.6

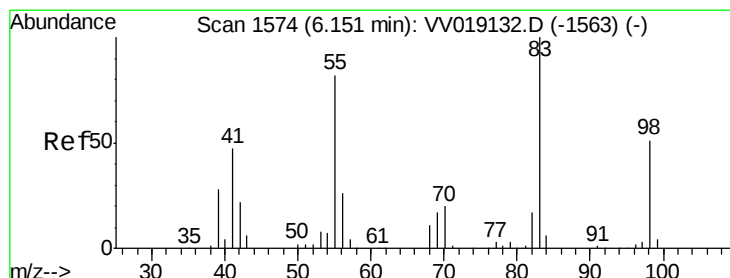
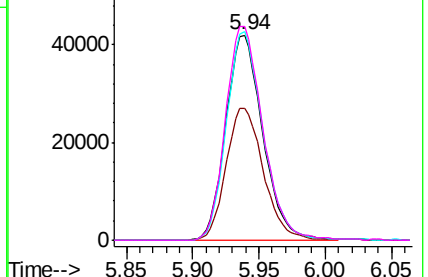
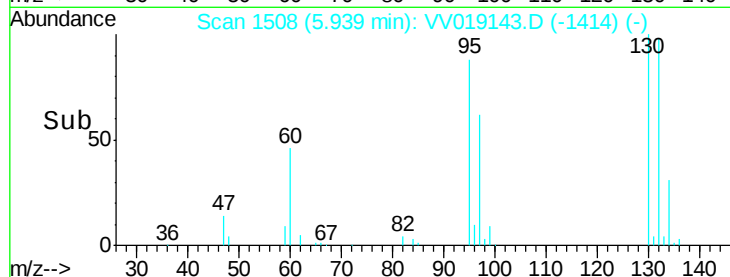


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 47.544 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

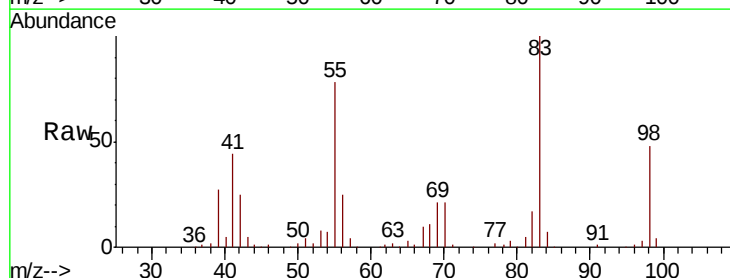
Tgt Ion: 83 Resp: 113958

Ion Ratio Lower Upper

83 100

55 76.9 68.1 102.1

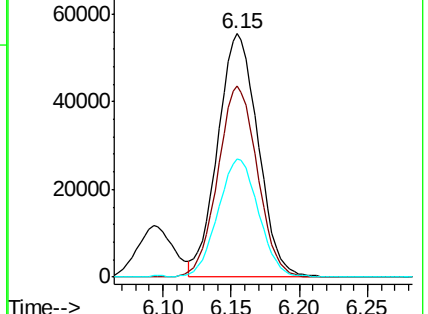
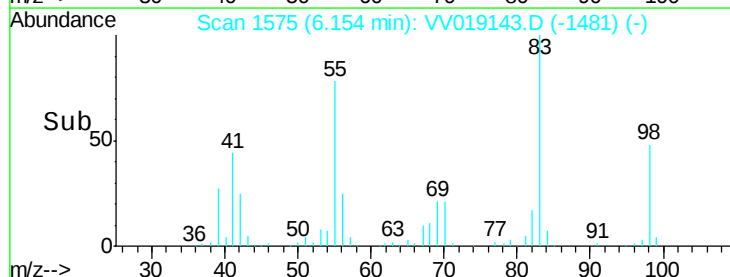
98 49.0 37.9 56.9

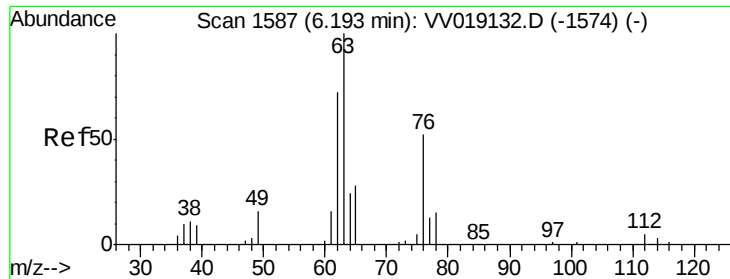


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

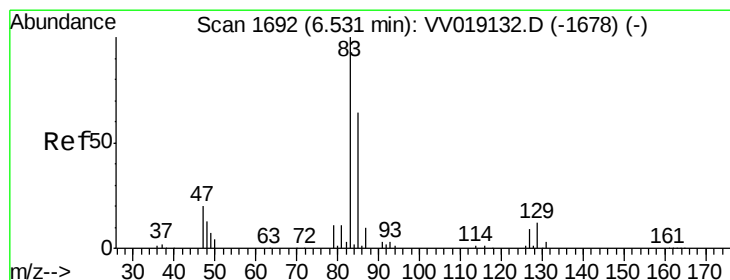
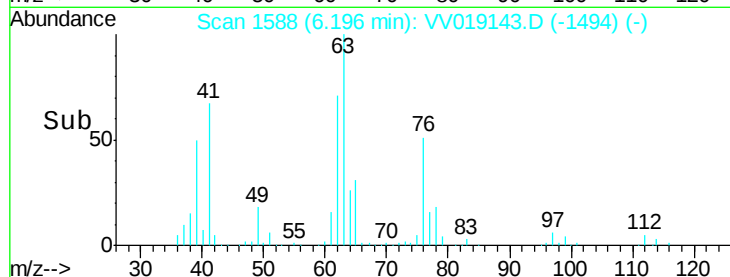
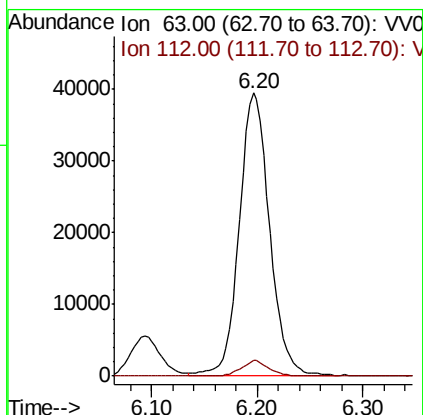
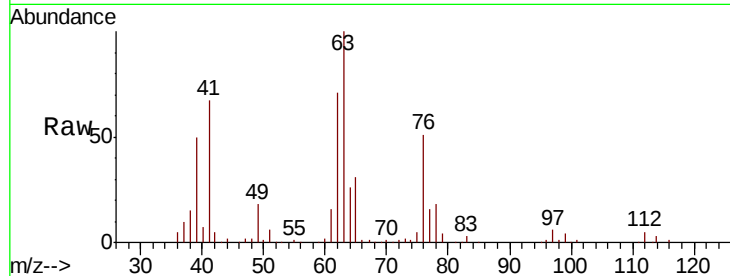




#37
 1,2-Dichloropropane
 Concen: 41.185 ug/L
 RT: 6.20 min Scan# 1588
 Delta R.T. 0.00 min
 Lab File: VV019143.D
 Acq: 28 Oct 2020 19:09

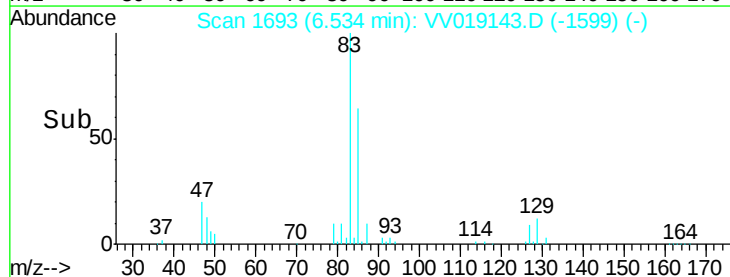
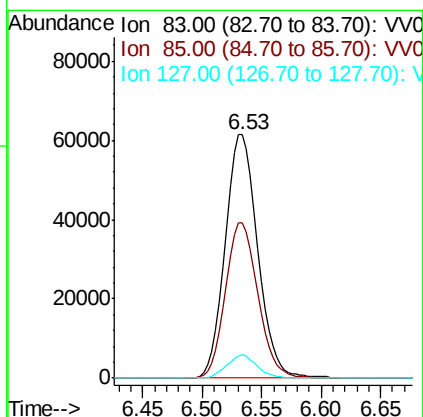
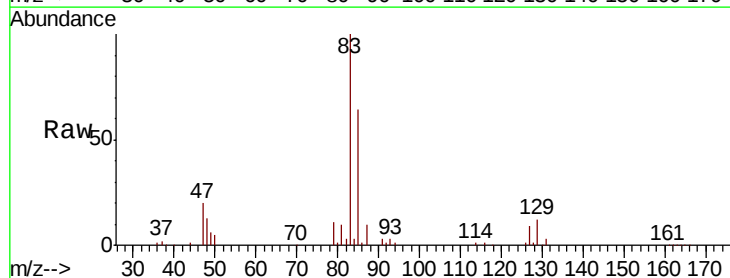
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05078

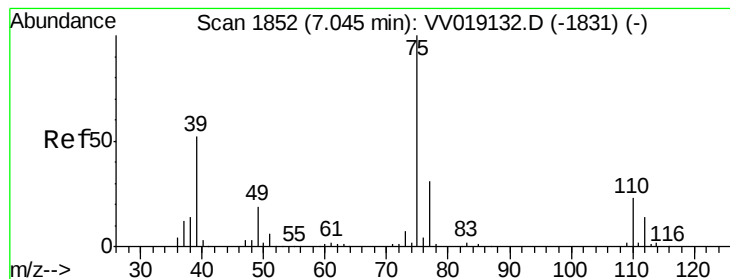
Tot Ion: 63 Resp: 78602
 Ion Ratio Lower Upper
 63 100
 112 4.9 3.5 5.3



#38
 Bromodichloromethane
 Concen: 48.277 ug/L
 RT: 6.53 min Scan# 1693
 Delta R.T. 0.00 min
 Lab File: VV019143.D
 Acq: 28 Oct 2020 19:09

Tgt Ion: 83 Resp: 116581
 Ion Ratio Lower Upper
 83 100
 85 63.9 44.9 83.3
 127 9.4 7.0 10.4



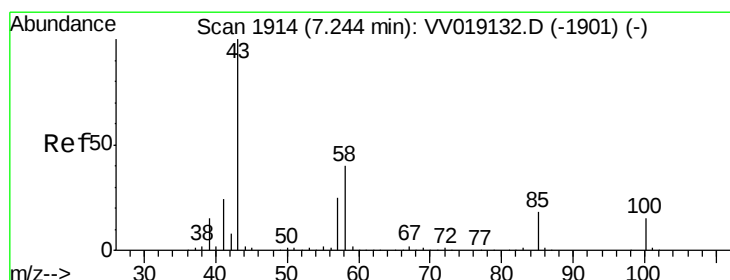
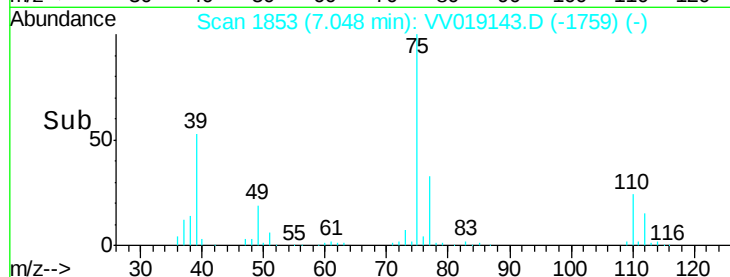
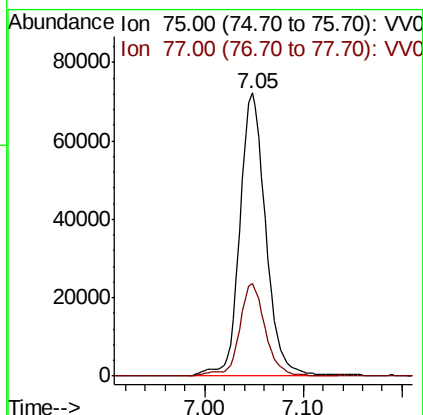
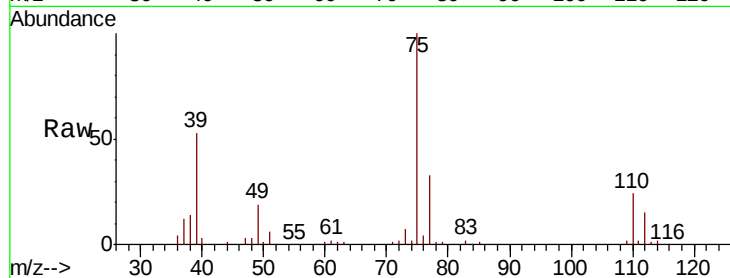


#39

cis-1,3-Dichloropropene
 Concen: 46.737 ug/L
 RT: 7.05 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VV019143.D
 Acq: 28 Oct 2020 19:09

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05078

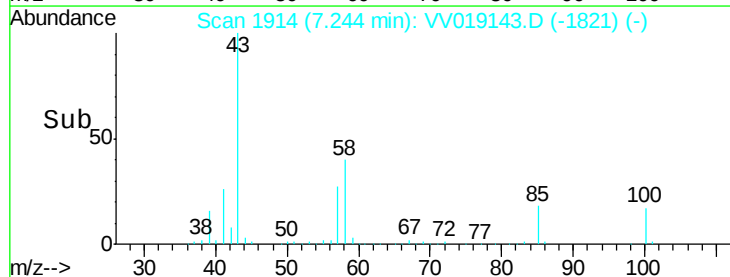
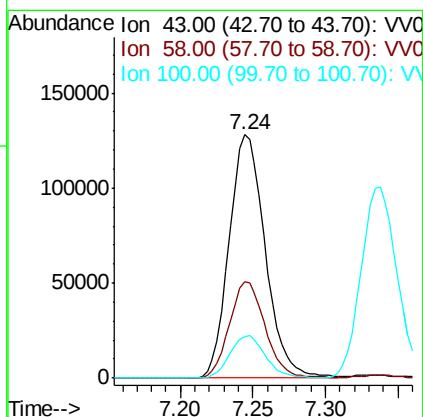
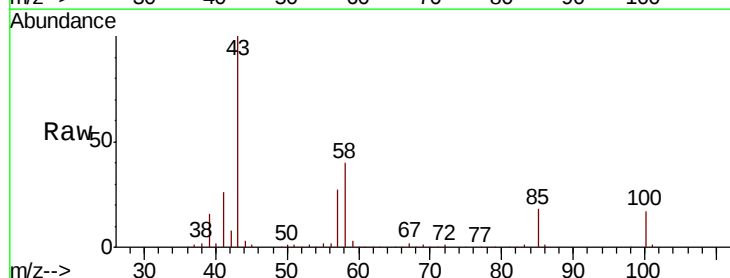
Tot Ion: 75 Resp: 131824
 Ion Ratio Lower Upper
 75 100
 77 32.5 22.1 41.1

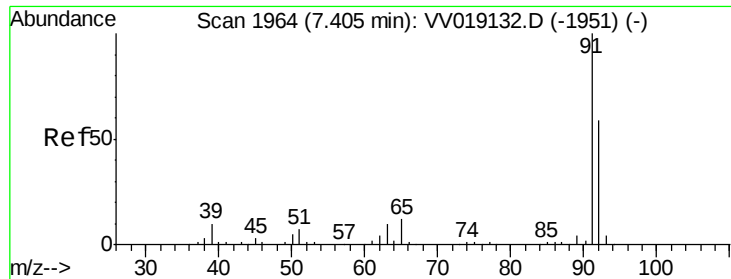


#40

4-Methyl-2-pentanone
 Concen: 86.123 ug/L
 RT: 7.24 min Scan# 1914
 Delta R.T. -0.00 min
 Lab File: VV019143.D
 Acq: 28 Oct 2020 19:09

Tgt Ion: 43 Resp: 221750
 Ion Ratio Lower Upper
 43 100
 58 39.1 29.6 44.4
 100 17.1 10.9 16.3#





#42

Toluene

Concen: 47.699 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

Instrument :

MSVOA_V

ClientSampleId :

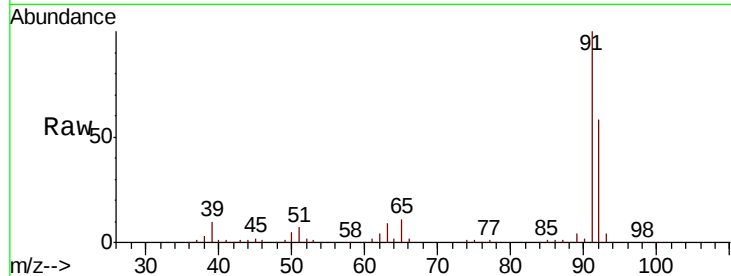
VSTD05078

Tot Ion: 91 Resp: 339419

Ion Ratio Lower Upper

91 100

92 57.5 40.9 76.0



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.41

200000

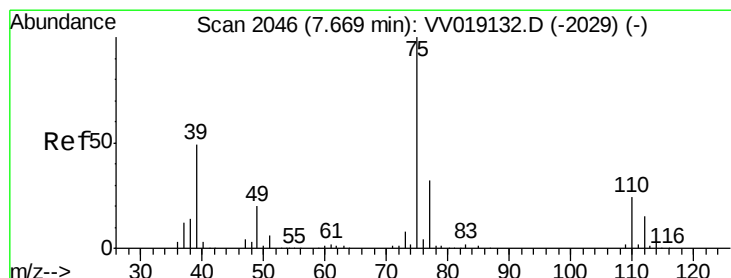
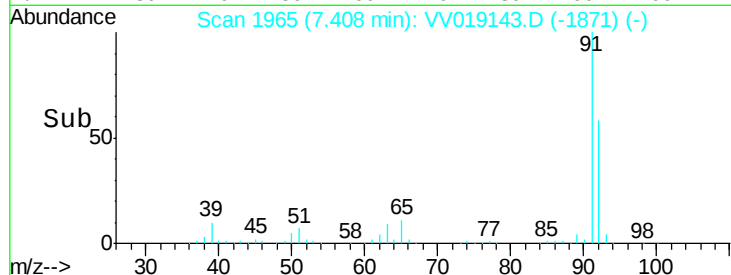
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 48.848 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VV019143.D

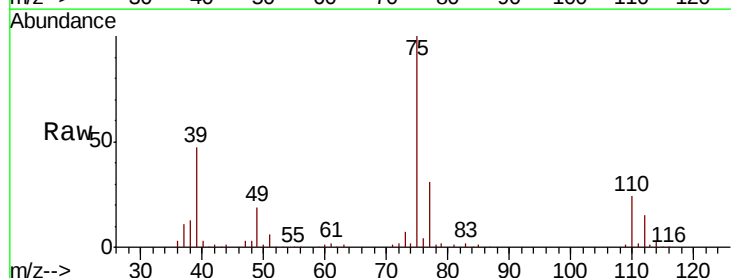
Acq: 28 Oct 2020 19:09

Tgt Ion: 75 Resp: 136687

Ion Ratio Lower Upper

75 100

77 31.1 21.5 39.9



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

7.67

80000

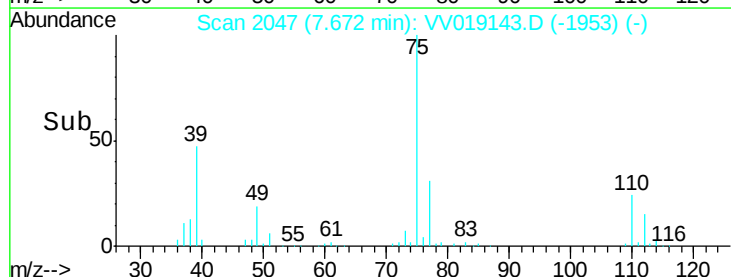
60000

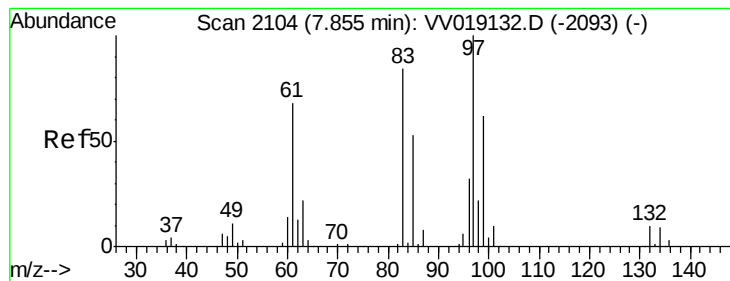
40000

20000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 46.085 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. 0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

Tot Ion: 97 Resp: 77683

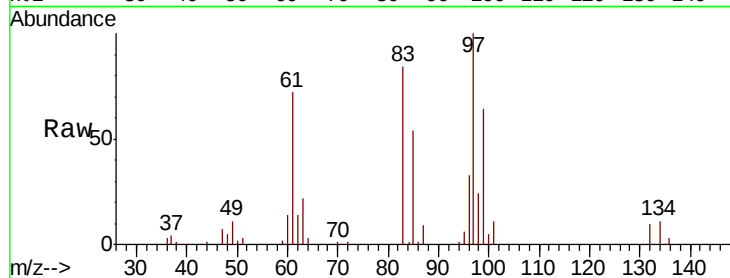
Ion Ratio Lower Upper

97 100

99 64.0 43.5 80.9

83 84.2 62.2 115.4

85 54.4 39.9 74.1

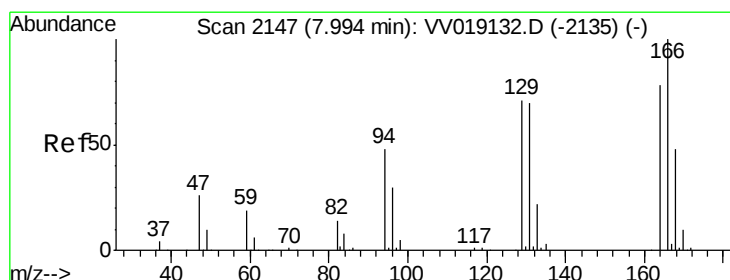
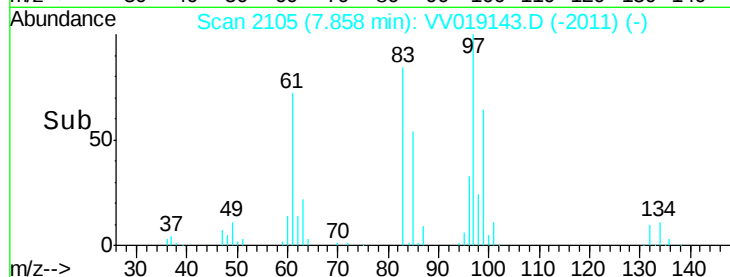
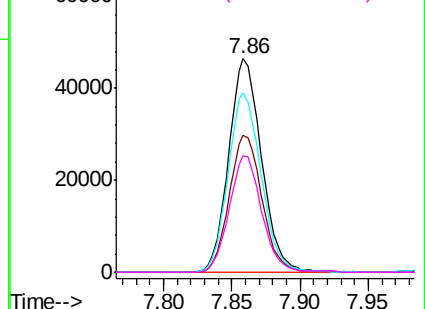


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46

Tetrachloroethene

Concen: 52.581 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

Tgt Ion: 164 Resp: 70687

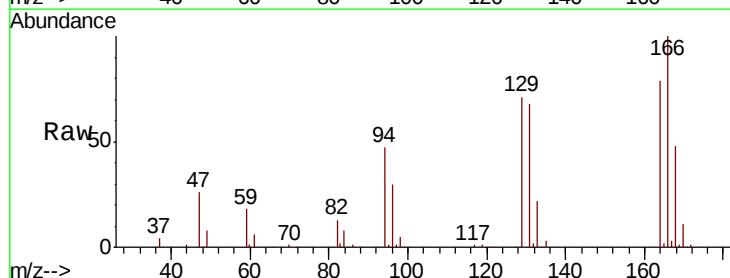
Ion Ratio Lower Upper

164 100

129 89.4 65.5 121.6

131 85.5 62.4 115.8

166 126.5 90.0 167.2

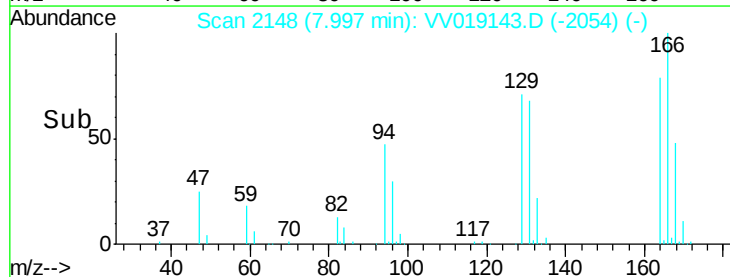
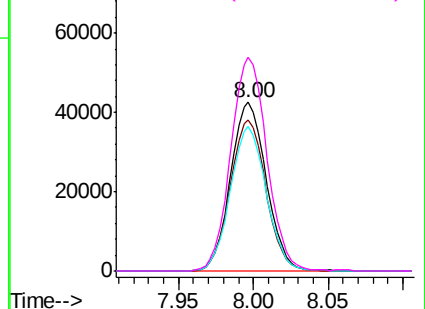


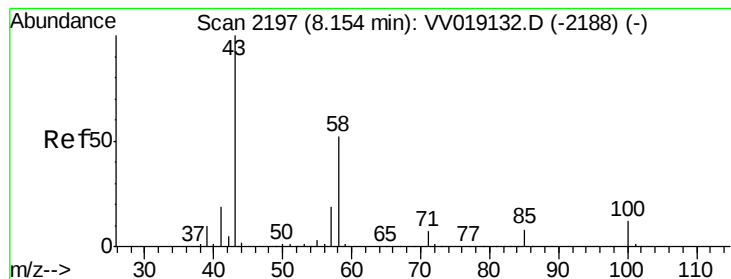
Abundance Ion 164.00 (163.70 to 164.70): V

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





#48

2-Hexanone

Concen: 86.500 ug/L

RT: 8.16 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

Tot Ion: 43 Resp: 171864

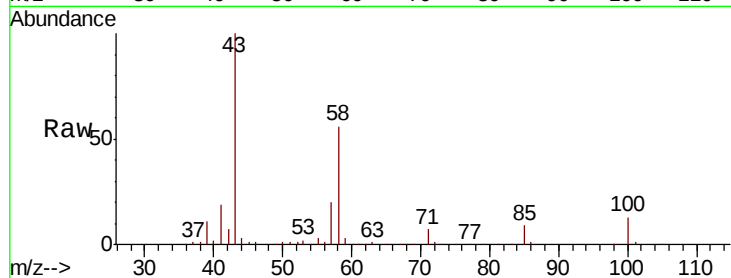
Ion Ratio Lower Upper

43 100

58 54.5 41.1 61.7

57 20.3 14.7 22.1

100 13.3 8.6 12.8#

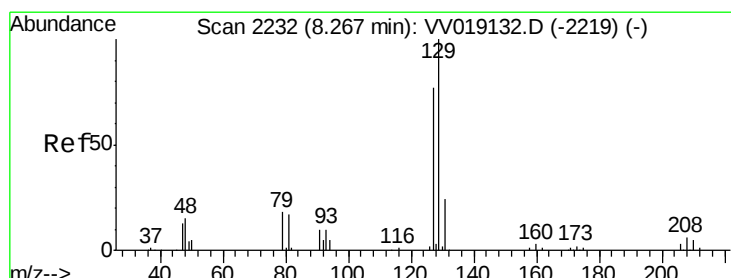
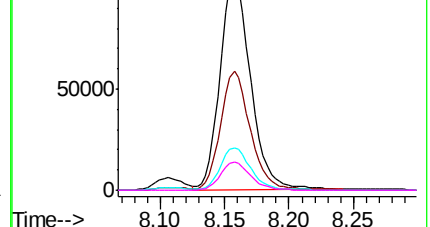
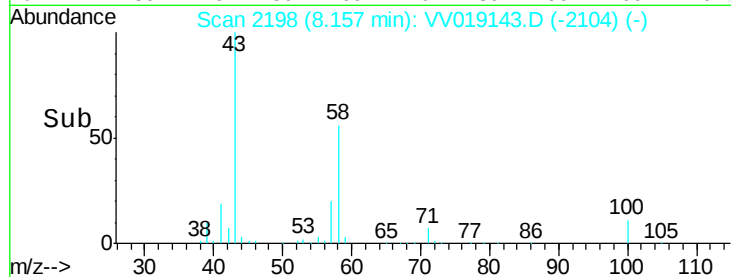


Abundance Ion 43.00 (42.70 to 43.70): VV019143.D (-2197) (-)

Ion 58.00 (57.70 to 58.70): VV019143.D (-2197) (-)

Ion 57.00 (56.70 to 57.70): VV019143.D (-2197) (-)

Ion 100.00 (99.70 to 100.70): VV019143.D (-2197) (-)



#49

Dibromochloromethane

Concen: 51.639 ug/L

RT: 8.27 min Scan# 2232

Delta R.T. -0.00 min

Lab File: VV019143.D

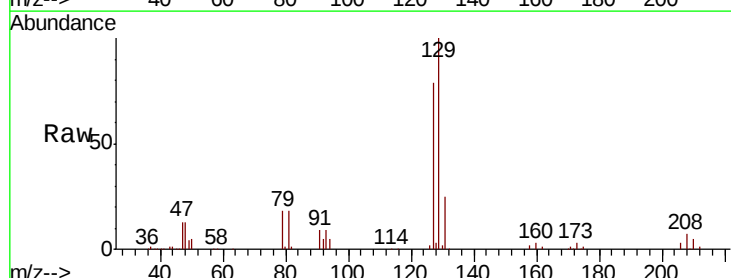
Acq: 28 Oct 2020 19:09

Tgt Ion: 129 Resp: 95142

Ion Ratio Lower Upper

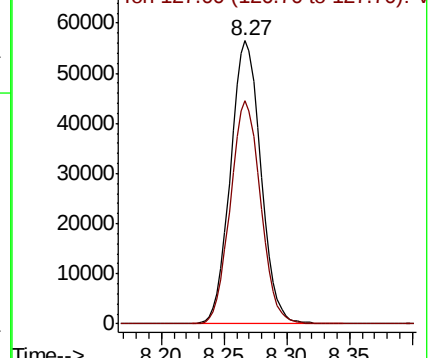
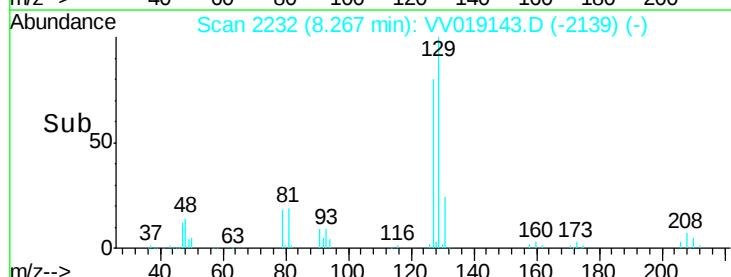
129 100

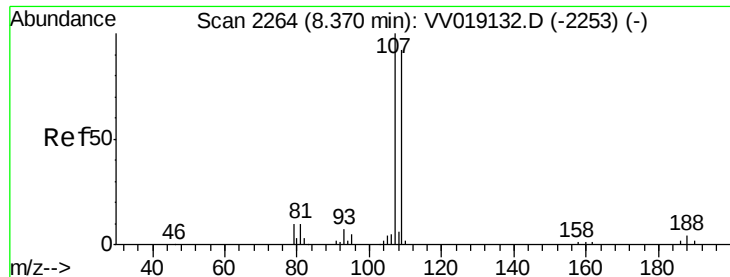
127 78.8 53.7 99.7



Abundance Ion 129.00 (128.70 to 129.70): VV019143.D (-2231) (-)

Ion 127.00 (126.70 to 127.70): VV019143.D (-2231) (-)

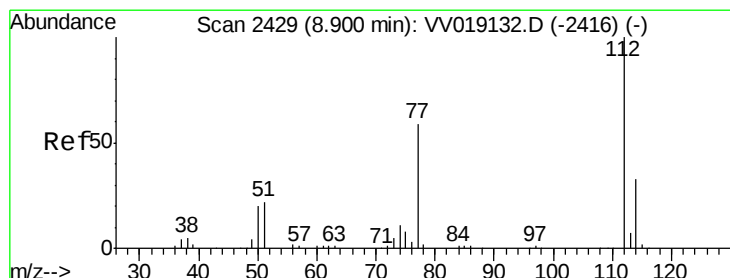
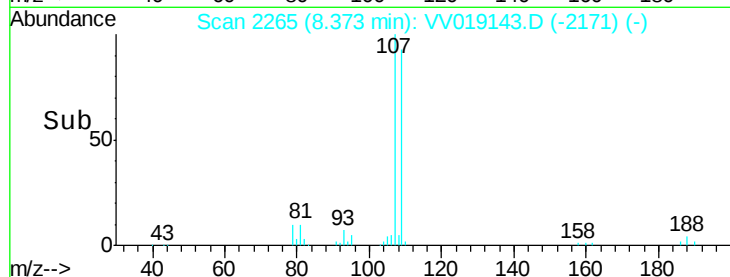
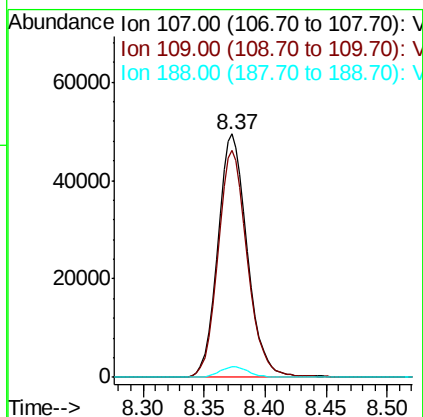
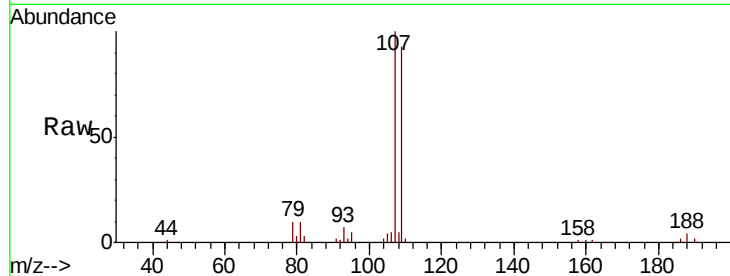




#50
1,2-Dibromoethane
Concen: 47.912 ug/L
RT: 8.37 min Scan# 2265
Delta R.T. 0.00 min
Lab File: VV019143.D
Acq: 28 Oct 2020 19:09

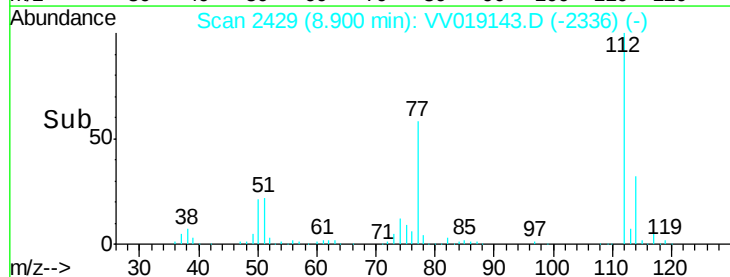
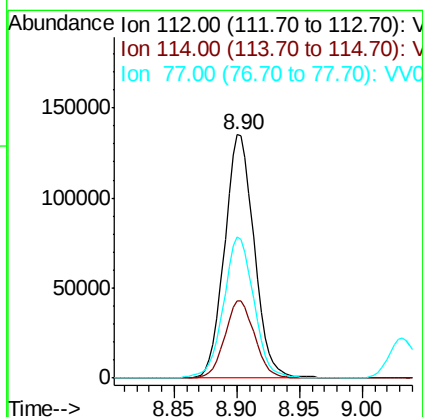
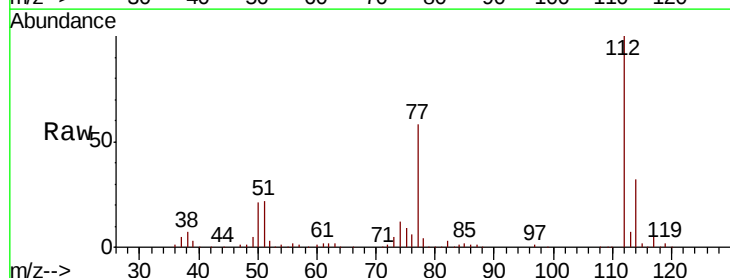
Instrument :
MSVOA_V
ClientSampleId :
VSTD05078

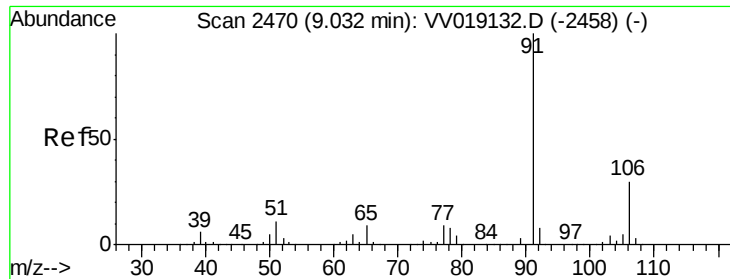
Tot Ion:107 Resp: 83810
Ion Ratio Lower Upper
107 100
109 93.5 66.1 122.7
188 4.3 3.2 4.8



#51
Chlorobenzene
Concen: 48.888 ug/L
RT: 8.90 min Scan# 2429
Delta R.T. -0.00 min
Lab File: VV019143.D
Acq: 28 Oct 2020 19:09

Tgt Ion:112 Resp: 223119
Ion Ratio Lower Upper
112 100
114 31.7 22.2 41.2
77 58.0 49.1 73.7





#52

Ethylbenzene

Concen: 49.145 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

Instrument :

MSVOA_V

ClientSampled :

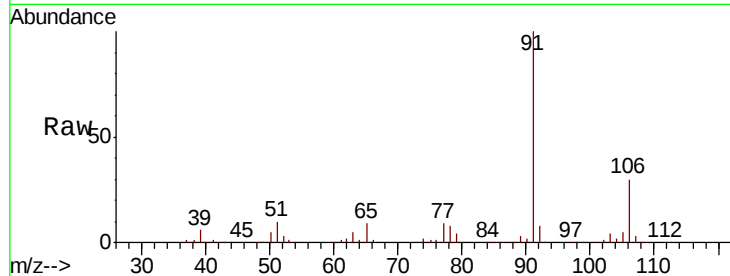
VSTD05078

Tot Ion: 91 Resp: 378159

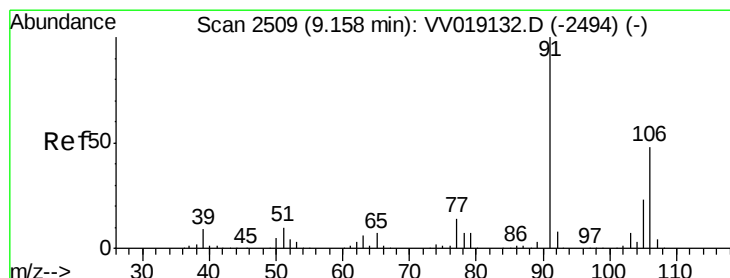
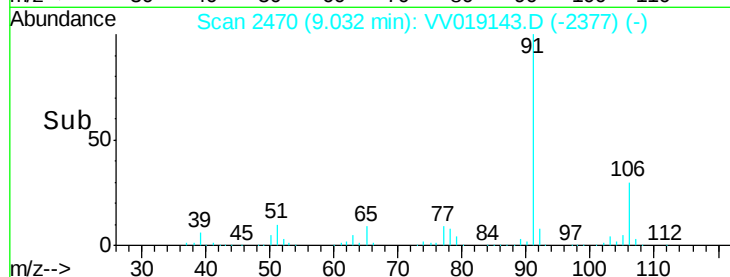
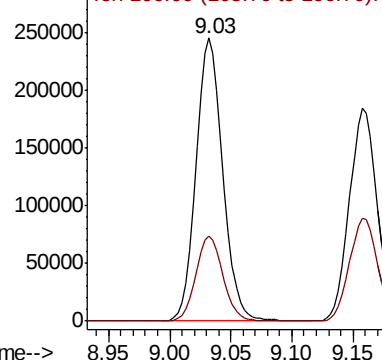
Ion Ratio Lower Upper

91 100

106 30.2 20.9 38.7



Abundance Ion 91.00 (90.70 to 91.70): VV019143.D (-2377) (-)



#53

m,p-Xylene

Concen: 50.688 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV019143.D

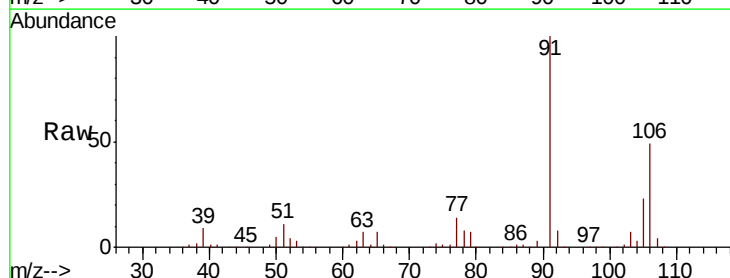
Acq: 28 Oct 2020 19:09

Tgt Ion: 106 Resp: 142780

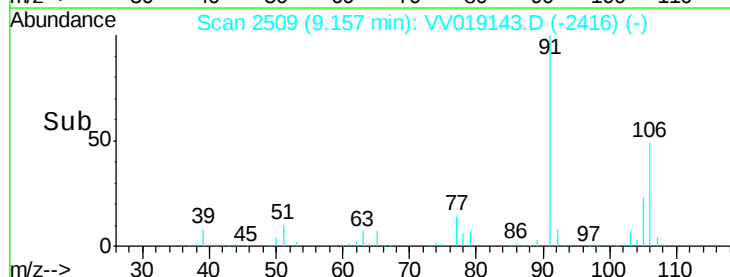
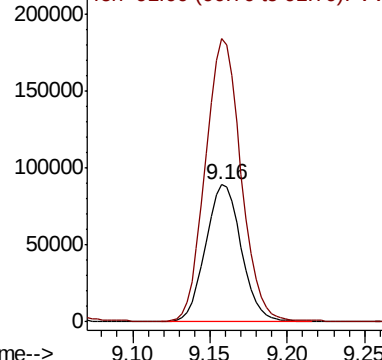
Ion Ratio Lower Upper

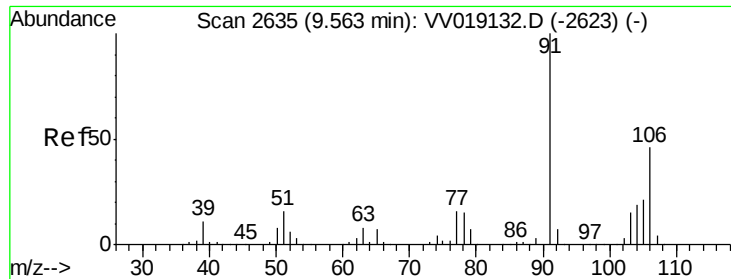
106 100

91 206.0 143.4 266.2



Abundance Ion 106.00 (105.70 to 106.70): VV019143.D (-2416) (-)

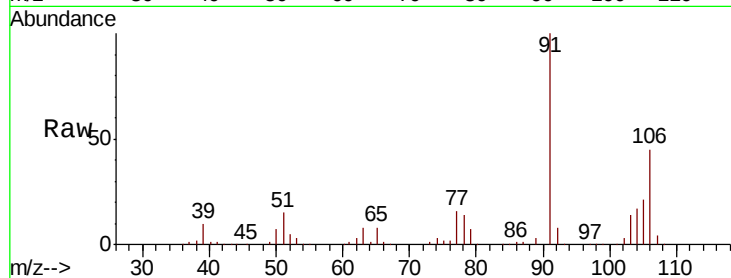




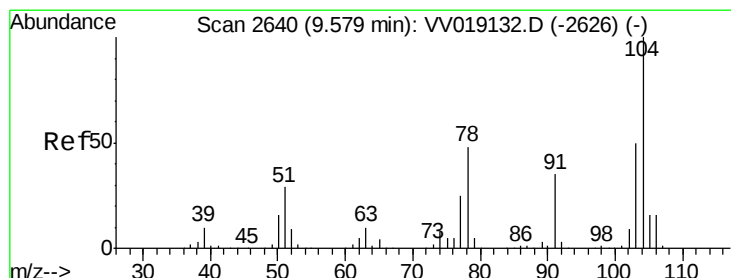
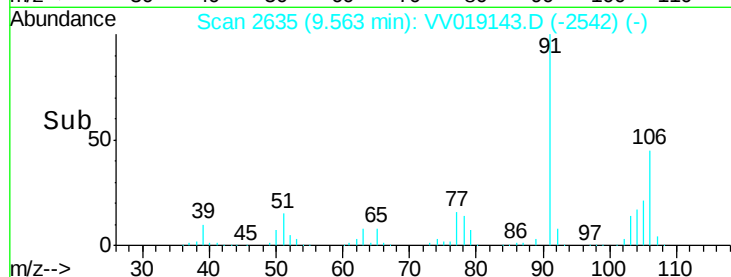
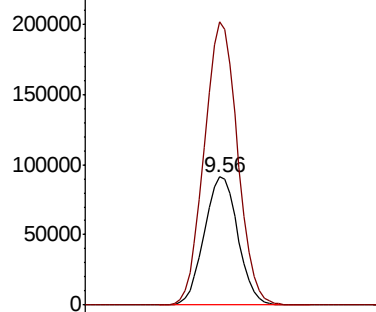
#54
o-xylene
Concen: 50.774 ug/L
RT: 9.56 min Scan# 2635
Delta R.T. -0.00 min
Lab File: VV019143.D
Acq: 28 Oct 2020 19:09

Instrument :
MSVOA_V
ClientSampleId :
VSTD05078

Tot Ion:106 Resp: 137709
Ion Ratio Lower Upper
106 100
91 220.3 154.3 286.5

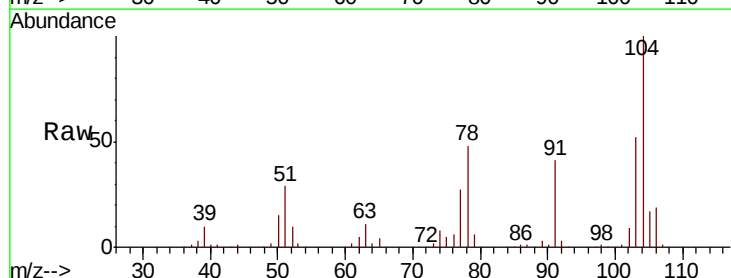


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

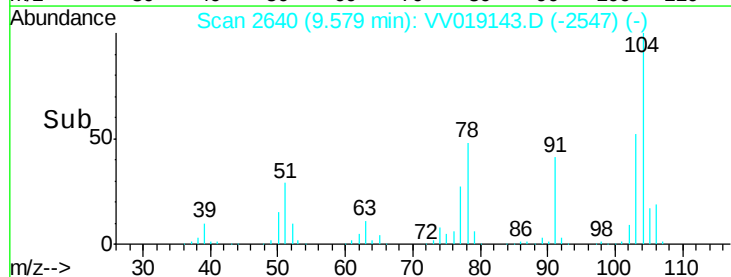
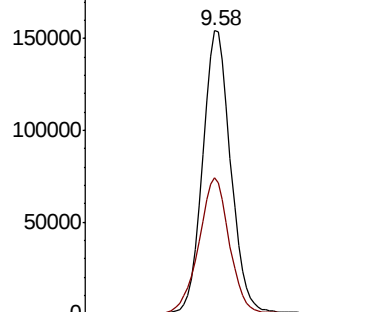


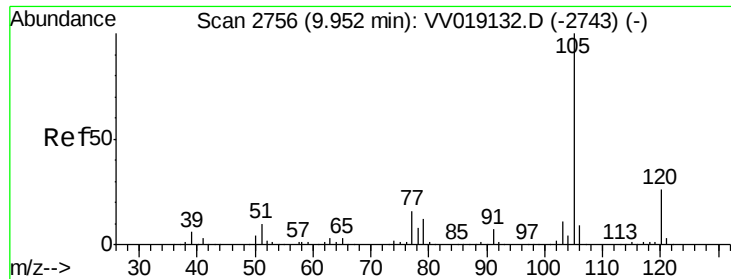
#55
Styrene
Concen: 51.505 ug/L
RT: 9.58 min Scan# 2640
Delta R.T. -0.00 min
Lab File: VV019143.D
Acq: 28 Oct 2020 19:09

Tgt Ion:104 Resp: 247791
Ion Ratio Lower Upper
104 100
78 48.2 33.2 61.7



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 52.186 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

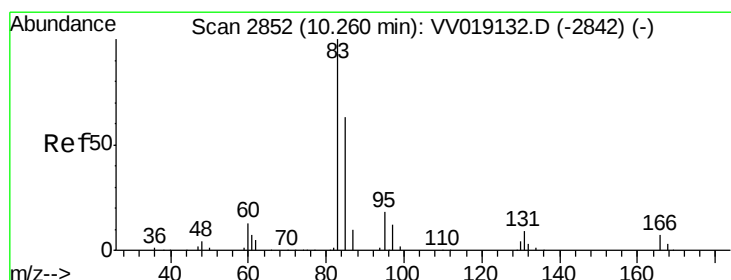
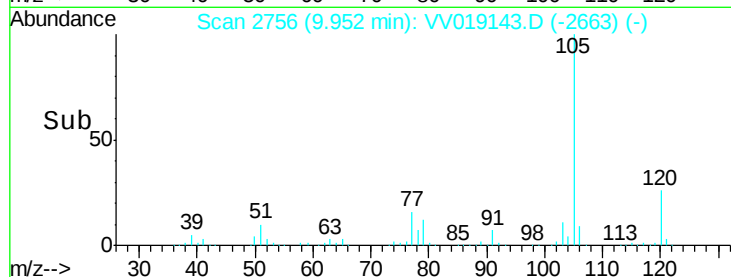
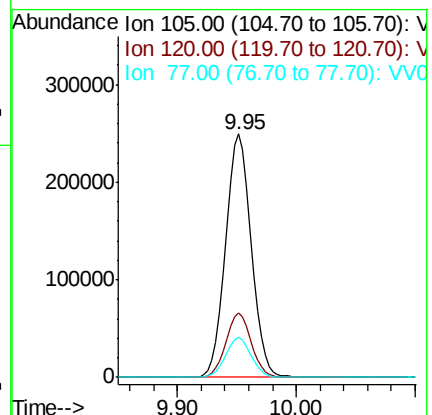
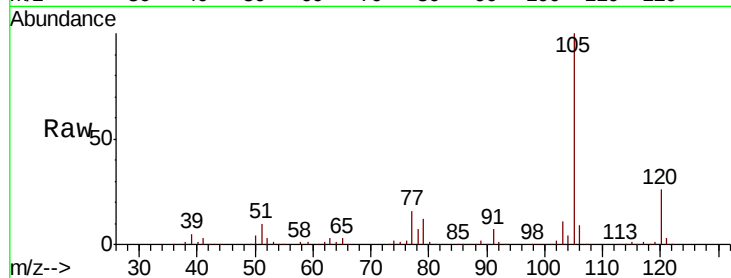
Tot Ion:105 Resp: 372167

Ion Ratio Lower Upper

105 100

120 26.2 20.6 31.0

77 16.4 13.4 20.0



#58

1,1,2,2-Tetrachloroethane

Concen: 43.190 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

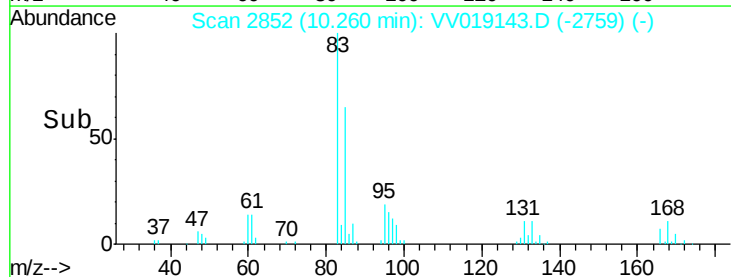
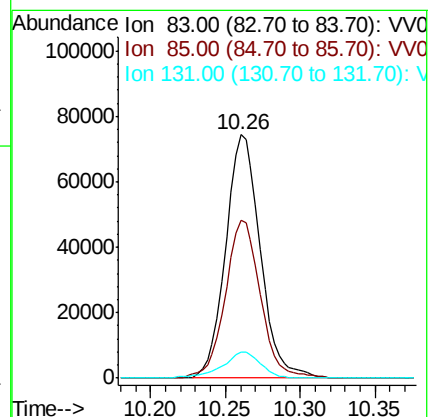
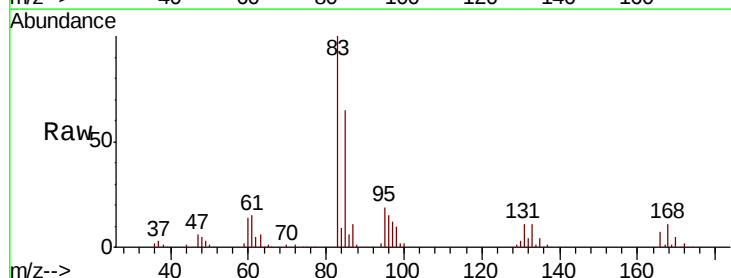
Tgt Ion: 83 Resp: 119794

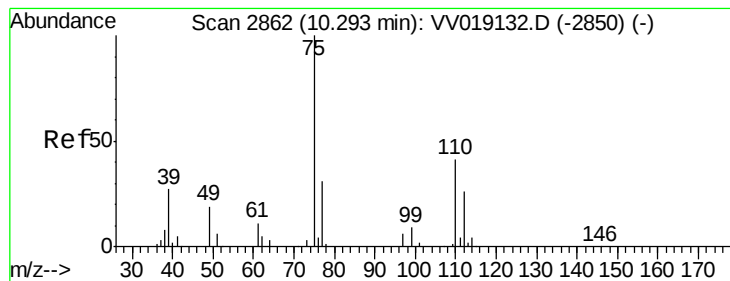
Ion Ratio Lower Upper

83 100

85 64.9 44.2 82.2

131 10.8 7.4 11.2





#59

1,2,3-Trichloropropane

Concen: 45.505 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. -0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

Instrument :

MSVOA_V

ClientSampled :

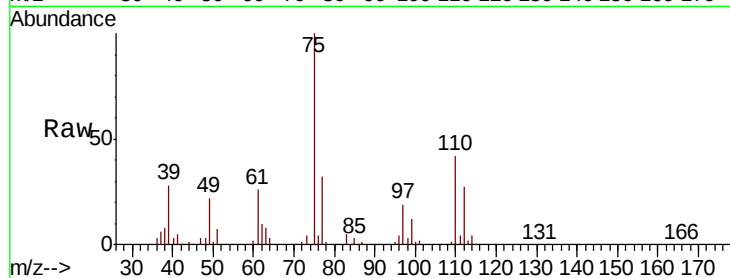
VSTD05078

Tot Ion: 75 Resp: 101549

Ion Ratio Lower Upper

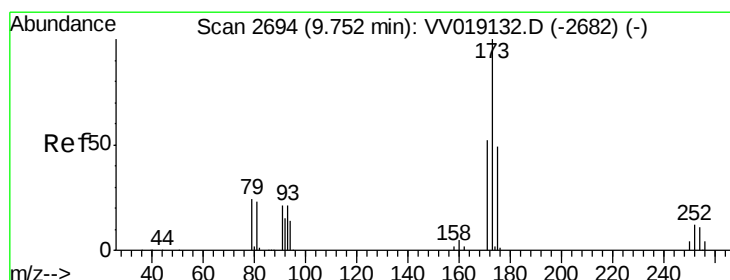
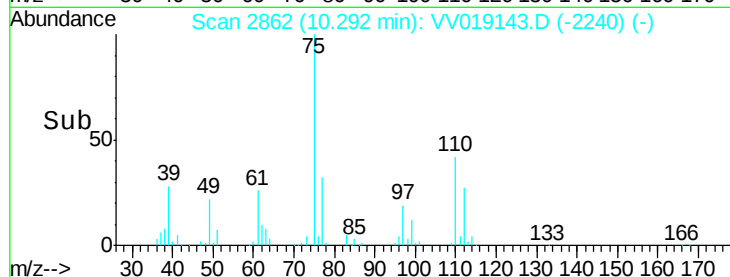
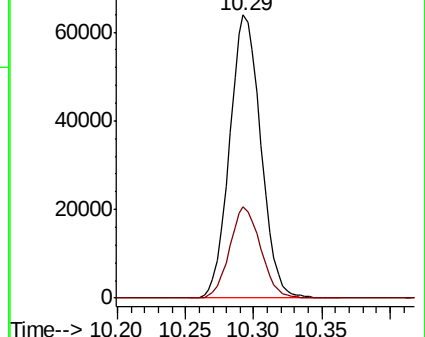
75 100

77 32.1 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VV019132.D (-2850) (-)

Ion 77.00 (76.70 to 77.70): VV019132.D (-2850) (-)



#61

Bromoform

Concen: 53.285 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

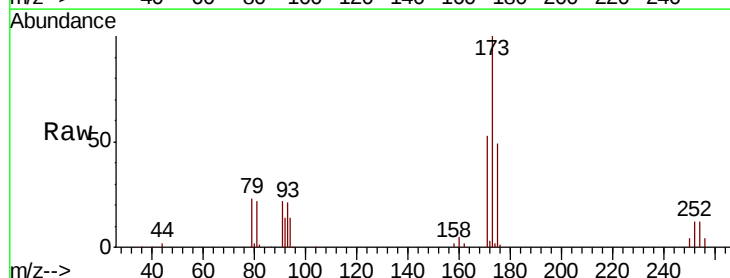
Tgt Ion: 173 Resp: 74736

Ion Ratio Lower Upper

173 100

175 48.2 38.3 57.5

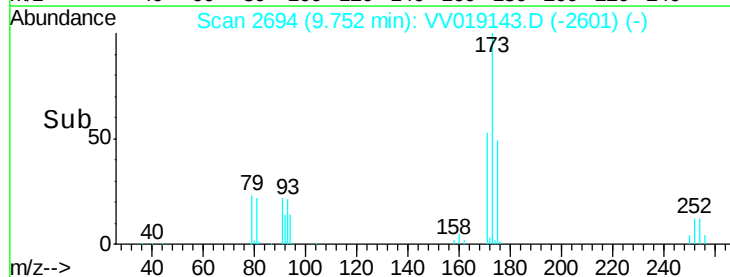
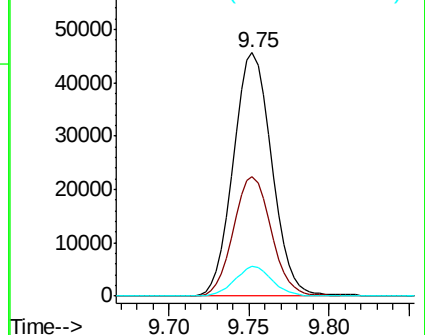
254 11.7 8.3 12.5

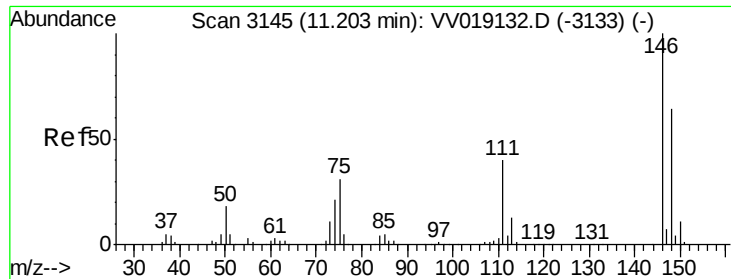


Abundance Ion 173.00 (172.70 to 173.70): VV019132.D (-2682) (-)

Ion 175.00 (174.70 to 175.70): VV019132.D (-2682) (-)

Ion 254.00 (253.70 to 254.70): VV019132.D (-2682) (-)





#62

1,3-Dichlorobenzene

Concen: 50.255 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. -0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

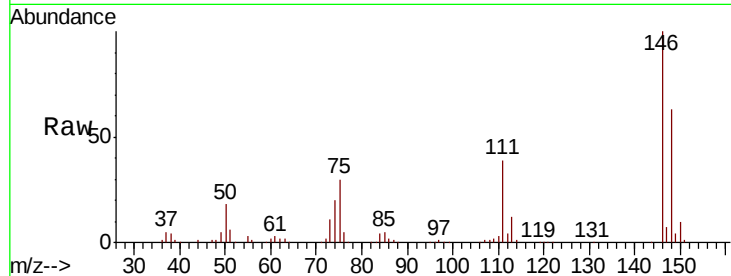
Tot Ion:146 Resp: 187823

Ion Ratio Lower Upper

146 100

111 39.4 28.8 53.4

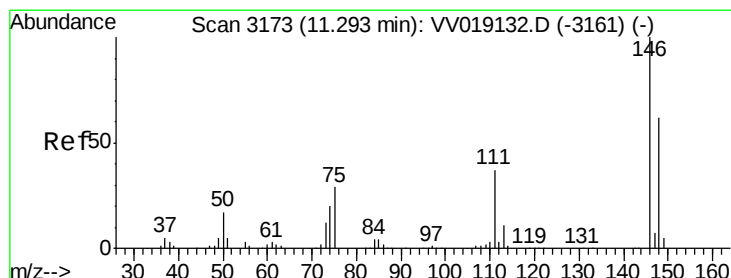
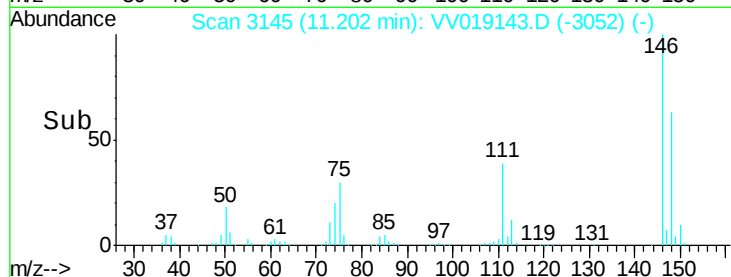
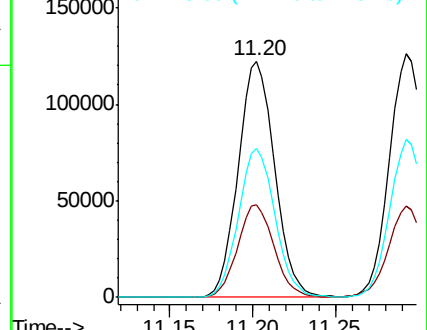
148 63.0 44.5 82.7



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



#63

1,4-Dichlorobenzene

Concen: 49.200 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. -0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

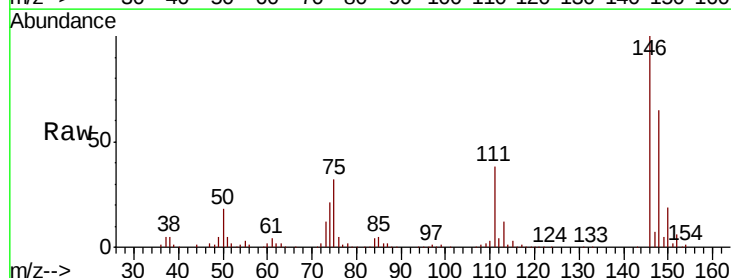
Tgt Ion:146 Resp: 192146

Ion Ratio Lower Upper

146 100

111 37.5 27.8 51.6

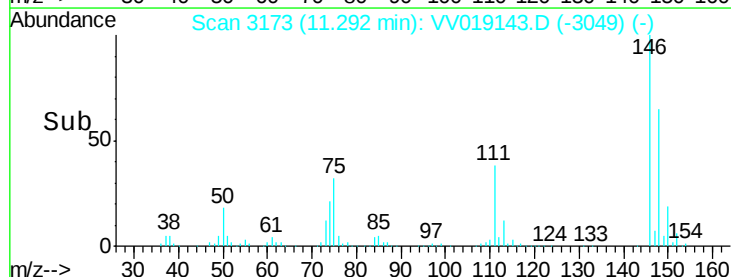
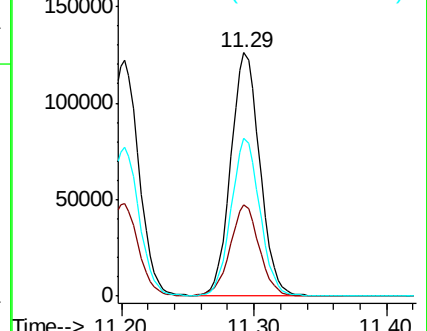
148 64.7 45.1 83.9

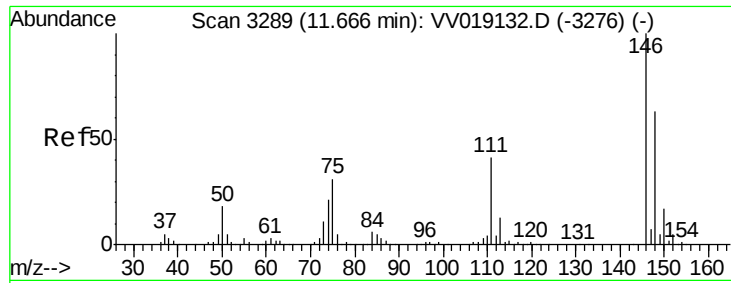


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 49.838 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

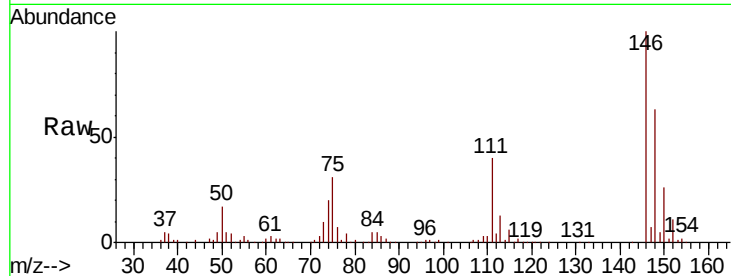
Tot Ion:146 Resp: 187805

Ion Ratio Lower Upper

146 100

111 40.0 33.3 49.9

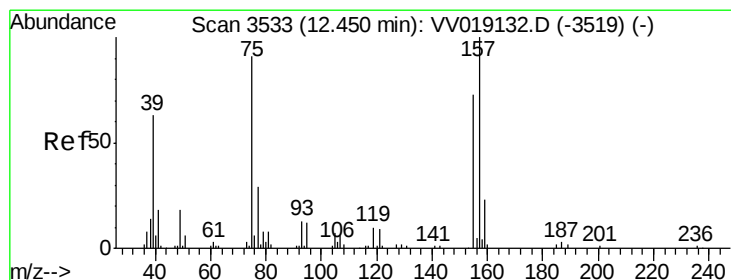
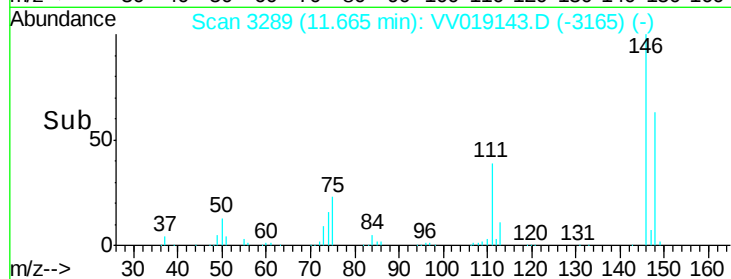
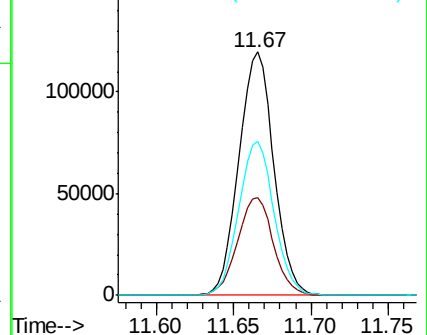
148 63.0 51.1 76.7



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: 47.287 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. -0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

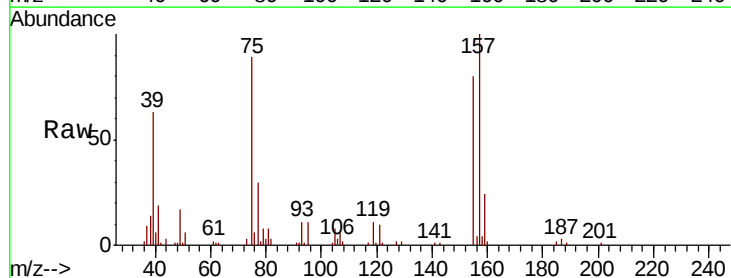
Tgt Ion: 75 Resp: 31482

Ion Ratio Lower Upper

75 100

155 89.5 62.2 93.4

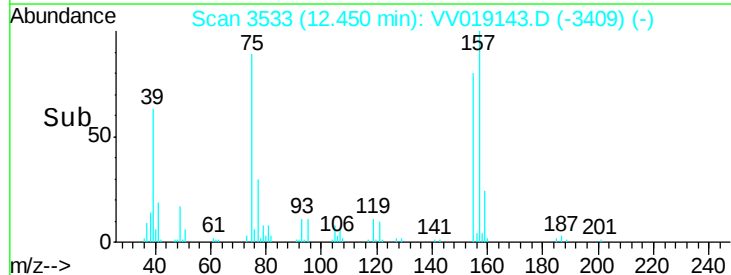
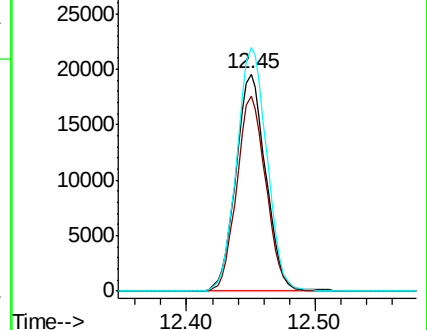
157 112.1 79.9 119.9

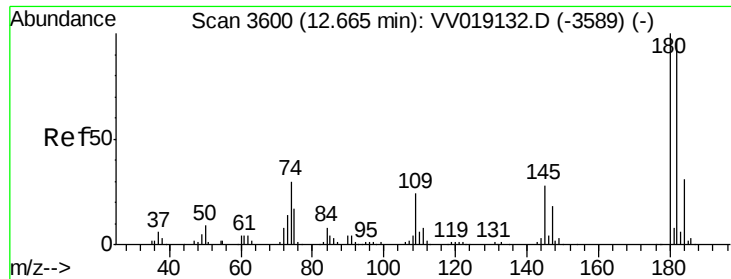


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

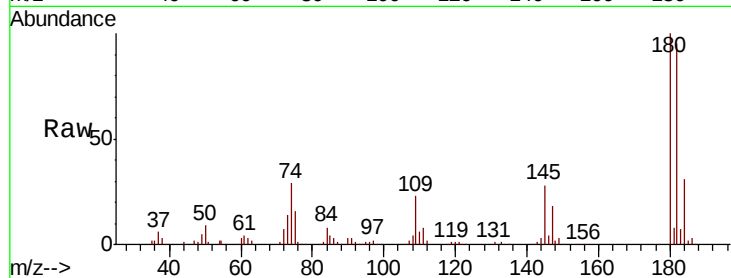




#67
 1,3,5-Trichlorobenzene
 Concen: 54.005 ug/L
 RT: 12.67 min Scan# 3600
 Delta R.T. -0.00 min
 Lab File: VV019143.D
 Acq: 28 Oct 2020 19:09

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD05078

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	77.4	116.0
184	30.8	24.7	37.1
145	27.6	23.5	35.3

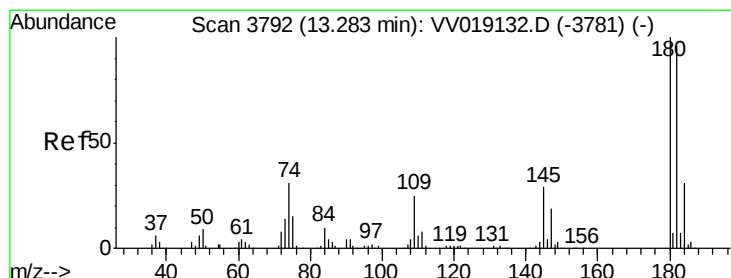
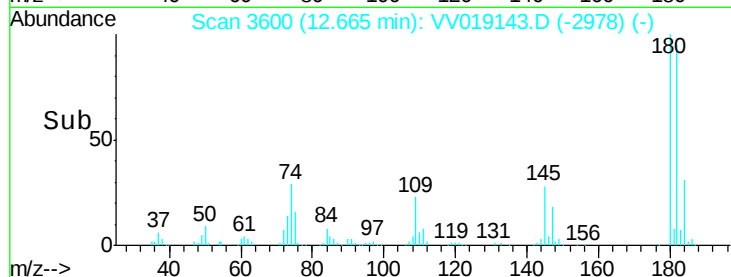
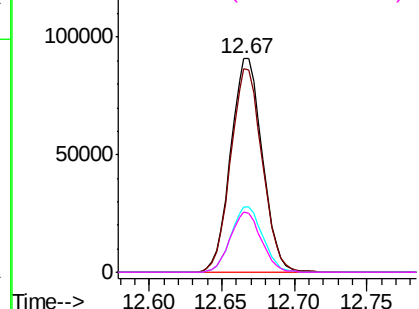


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

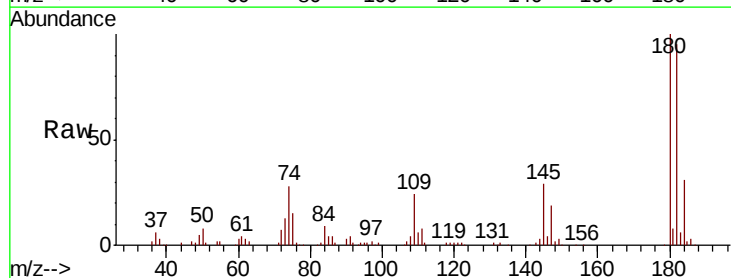
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 54.621 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. -0.00 min
 Lab File: VV019143.D
 Acq: 28 Oct 2020 19:09

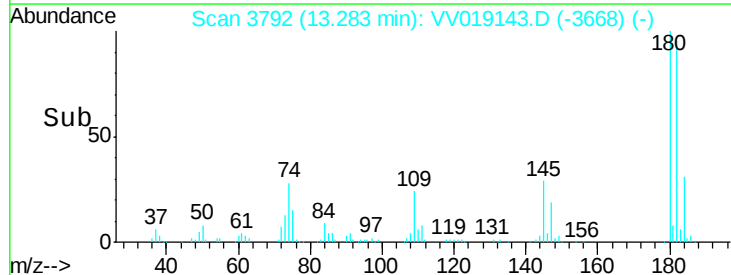
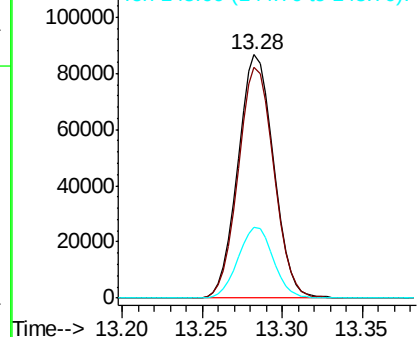
Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	77.4	116.2
145	28.8	23.7	35.5

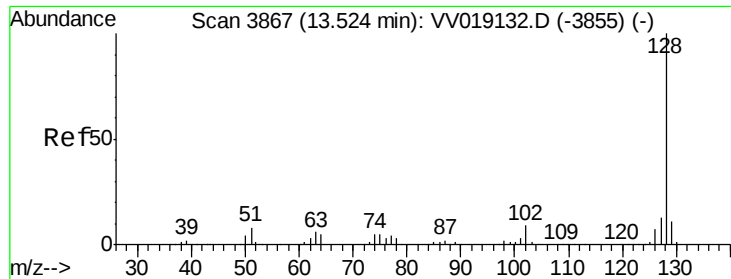


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 53.300 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. -0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

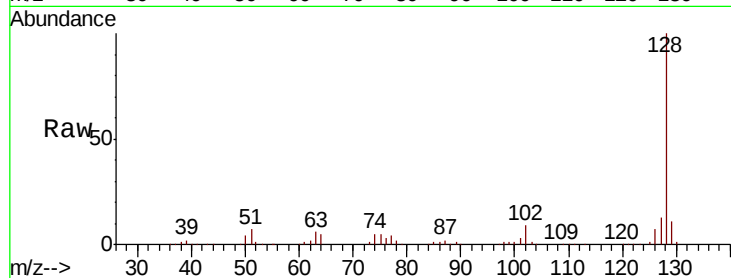
Tot Ion:128 Resp: 395214

Ion Ratio Lower Upper

128 100

127 13.0 10.6 15.8

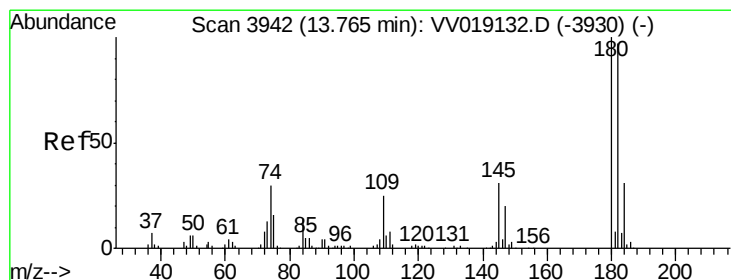
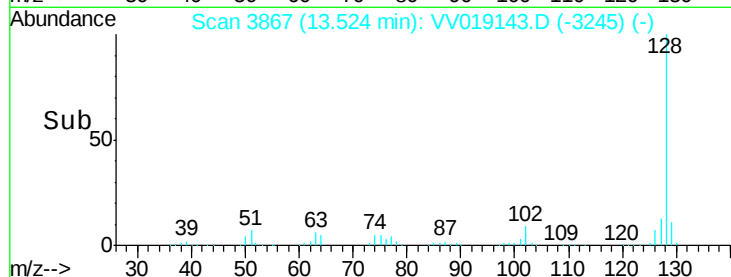
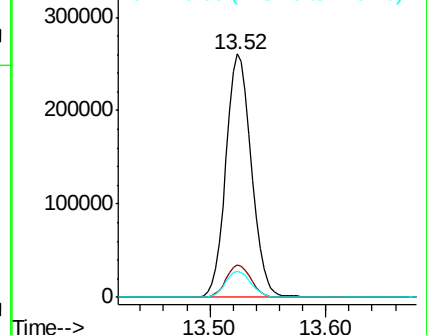
129 10.8 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 53.994 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VV019143.D

Acq: 28 Oct 2020 19:09

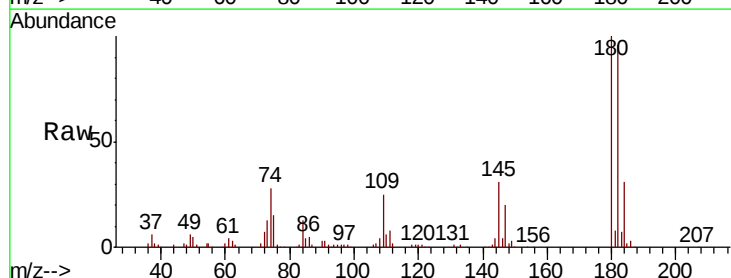
Tgt Ion:180 Resp: 131655

Ion Ratio Lower Upper

180 100

182 96.4 76.9 115.3

145 31.0 25.6 38.4



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

