

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101519\
 Data File : VV013157.D
 Acq On : 15 Oct 2019 09:55
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00ML/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05075

Quant Time: Oct 15 18:11:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM101119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Oct 15 05:07:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	727178	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	708024	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	361672	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	267338	58.16	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	116.32%
7) Chloroethane-d5	1.58	69	213703	56.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	113.44%
11) 1,1-Dichloroethene-d2	2.13	63	459691	53.02	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	106.04%
21) 2-Butanone-d5	3.96	46	324102	93.78	ug/L	0.05
Spiked Amount	100.000	Range	40 - 130	Recovery	=	93.78%
24) Chloroform-d	4.40	84	499114	56.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	112.80%
26) 1,2-Dichloroethane-d4	5.08	65	305112	55.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	111.86%
32) Benzene-d6	5.09	84	1037468	54.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	109.84%
36) 1,2-Dichloropropane-d6	6.11	67	315492	53.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	106.62%
41) Toluene-d8	7.36	98	967360	57.22	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	114.44%
43) trans-1,3-Dichloropropene-	7.66	79	140503	52.41	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	104.82%
47) 2-Hexanone-d5	8.13	63	223405	94.87	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	94.87%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	393843	51.56	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.12%
64) 1,2-Dichlorobenzene-d4	11.67	152	368337	51.98	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.96%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	295256	52.344	ug/L	98
3) Chloromethane	1.25	50	316635	49.330	ug/L	98
5) Vinyl chloride	1.32	62	307374	49.847	ug/L	99
6) Bromomethane	1.53	94	189363	60.019	ug/L	98
8) Chloroethane	1.60	64	183092	49.919	ug/L	99
9) Trichlorofluoromethane	1.77	101	407748	51.534	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	240538	51.611	ug/L	97
12) 1,1-Dichloroethene	2.14	96	226272	50.175	ug/L	92
14) Carbon disulfide	2.31	76	666423	50.956	ug/L	100
15) Methyl Acetate	2.47	43	248645	44.214	ug/L	96
16) Methylene chloride	2.53	84	278120	51.835	ug/L	98
17) trans-1,2-Dichloroethene	2.79	96	251275	51.361	ug/L	97
18) Methyl tert-butyl Ether	2.81	73	740651	50.156	ug/L	99
19) 1,1-Dichloroethane	3.23	63	475248	51.498	ug/L	99
20) cis-1,2-Dichloroethene	3.96	96	272718	49.254	ug/L	100
22) 2-Butanone	4.05	43	458128	113.420	ug/L	99
23) Bromochloromethane	4.30	128	145236	51.645	ug/L	98

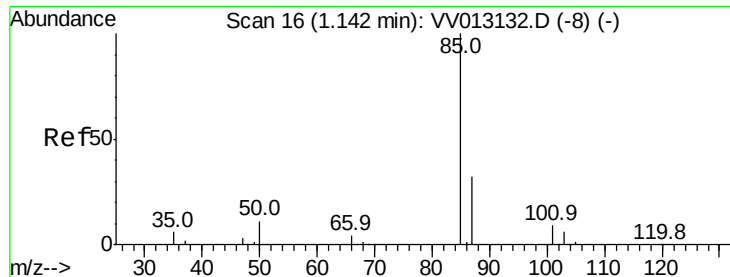
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 Quant Title : VOC Analysis
 QLast Update : Tue Oct 15 05:07:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	4.42	83	486356	52.305	ug/L	99
27) 1,2-Dichloroethane	5.18	62	365362	51.259	ug/L	100
29) Cyclohexane	4.72	56	423897	49.991	ug/L	100
30) 1,1,1-Trichloroethane	4.65	97	397041	50.538	ug/L	99
31) Carbon tetrachloride	4.87	117	357256	51.176	ug/L	100
33) Benzene	5.14	78	1099468	50.984	ug/L	100
34) Trichloroethene	5.96	95	296114	51.571	ug/L	99
35) Methylcyclohexane	6.17	83	459498	52.904	ug/L	99
37) 1,2-Dichloropropane	6.22	63	281597	50.428	ug/L	100
38) Bromodichloromethane	6.55	83	357182	50.270	ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	410357	49.687	ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	750367	102.651	ug/L	98
42) Toluene	7.43	91	1174538	52.906	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	362969	50.700	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	269630	50.858	ug/L	98
46) Tetrachloroethene	8.02	164	241069	53.031	ug/L	99
48) 2-Hexanone	8.18	43	689347	121.951	ug/L	99
49) Dibromochloromethane	8.29	129	294865	51.032	ug/L	99
50) 1,2-Dibromoethane	8.39	107	280493	50.620	ug/L	100
51) Chlorobenzene	8.92	112	739205	50.774	ug/L	99
52) Ethylbenzene	9.05	91	1253237	52.849	ug/L	100
53) m,p-Xylene	9.18	106	487118	54.600	ug/L	100
54) o-xylene	9.59	106	463590	51.865	ug/L	99
55) Styrene	9.60	104	818832	55.783	ug/L	97
56) Isopropylbenzene	9.97	105	1222409	53.260	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	374903	48.643	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	342088	50.320	ug/L	99
61) Bromoform	9.77	173	217633	47.820	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	582238	49.781	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	593596	50.541	ug/L	100
65) 1,2-Dichlorobenzene	11.68	146	591087	49.645	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	77865	44.964	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	410040	49.159	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	342146	47.825	ug/L	100
69) Naphthalene	13.55	128	939578	47.672	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	381336	49.830	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 52.344 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

Instrument :

MSVOA_V

ClientSampleId :

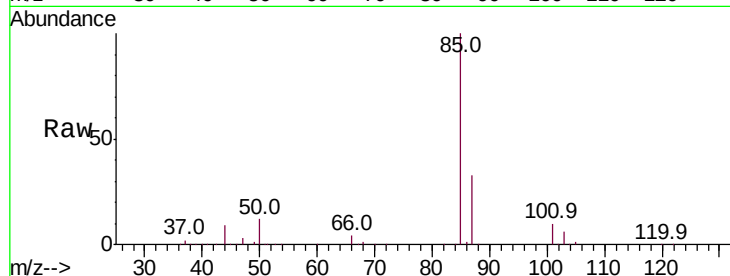
VSTD05075

Tot Ion: 85 Resp: 295256

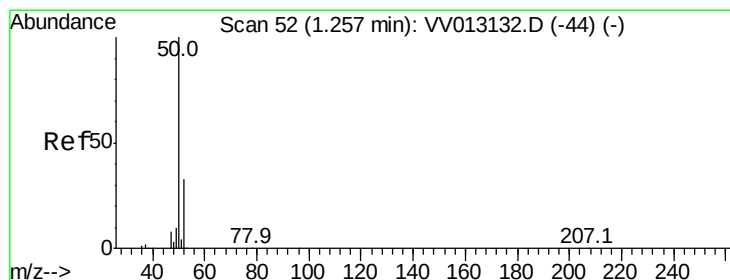
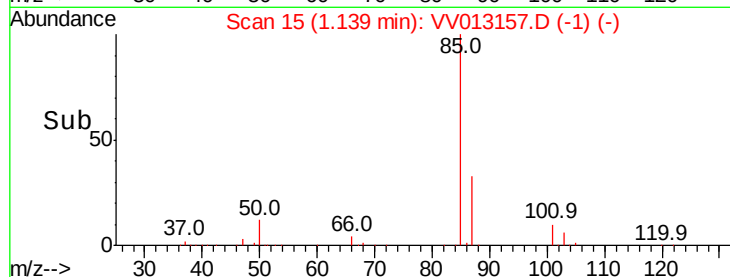
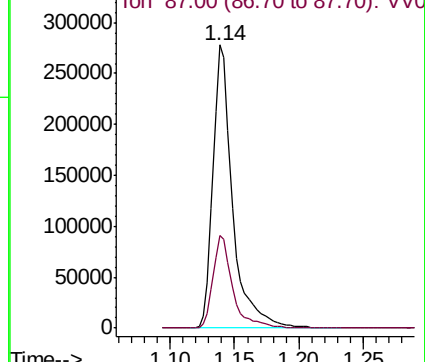
Ion Ratio Lower Upper

85 100

87 32.9 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV0



#3

Chloromethane

Concen: 49.330 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.01 min

Lab File: VV013157.D

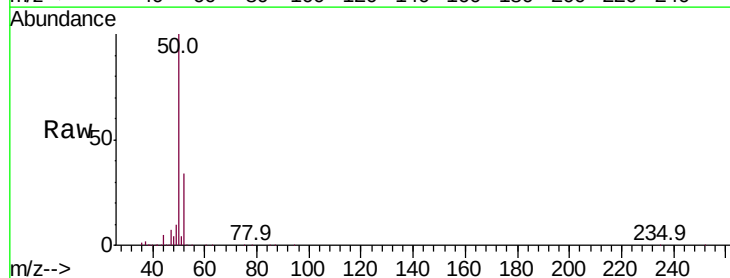
Acq: 15 Oct 2019 09:55

Tgt Ion: 50 Resp: 316635

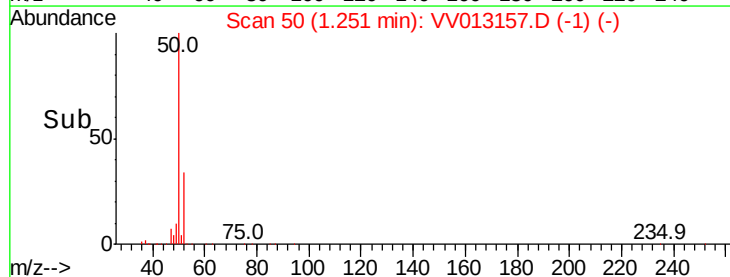
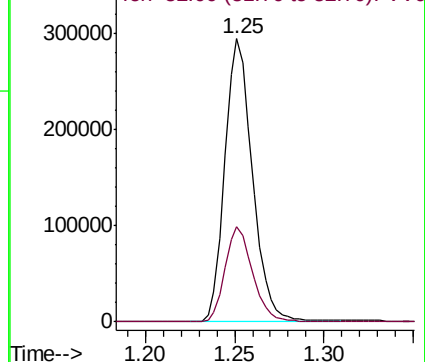
Ion Ratio Lower Upper

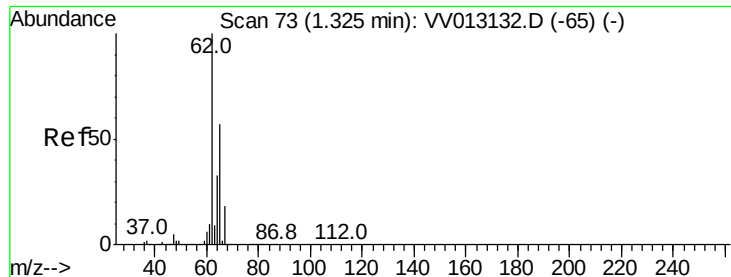
50 100

52 33.7 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV0





#5

Vinyl chloride

Concen: 49.847 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

Instrument :

MSVOA_V

ClientSampleId :

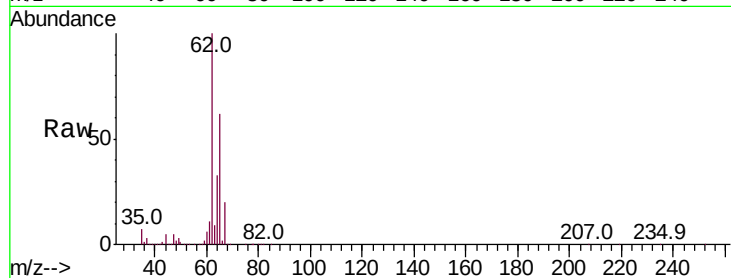
VSTD05075

Tot Ion: 62 Resp: 307374

Ion Ratio Lower Upper

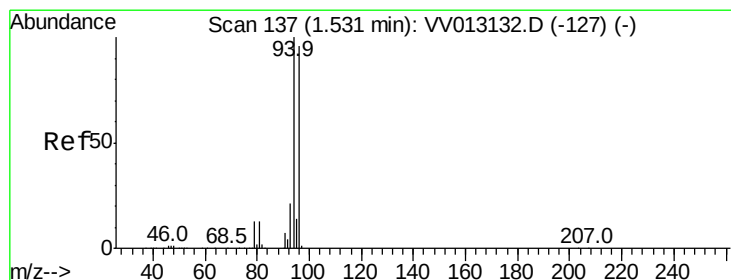
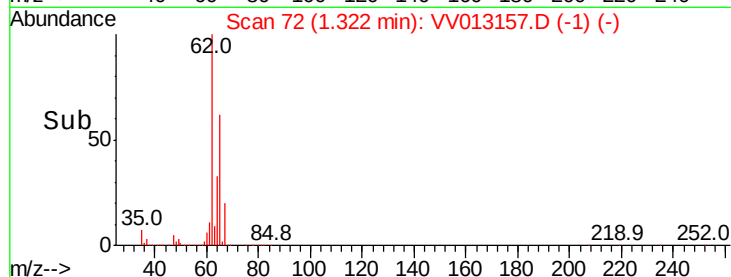
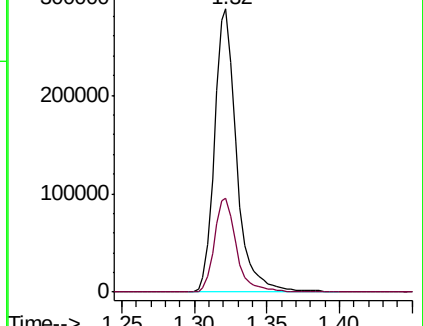
62 100

64 33.2 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 60.019 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV013157.D

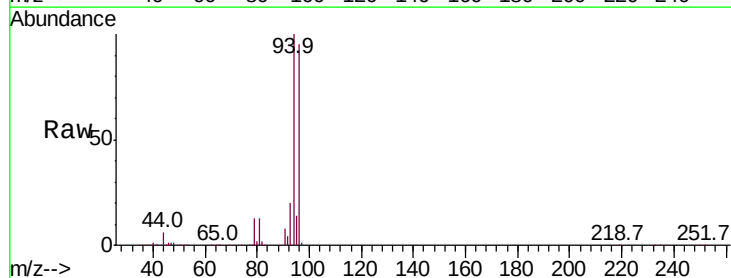
Acq: 15 Oct 2019 09:55

Tgt Ion: 94 Resp: 189363

Ion Ratio Lower Upper

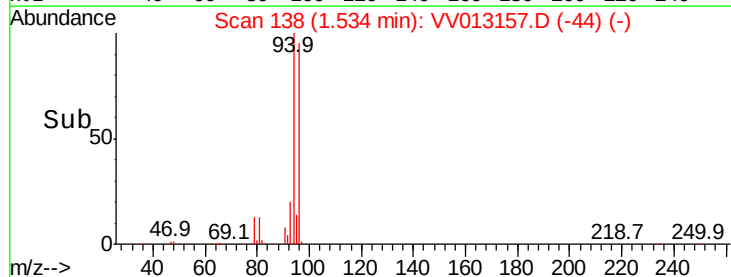
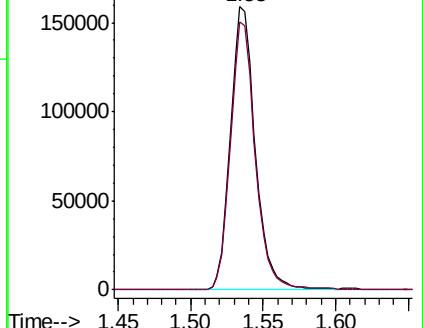
94 100

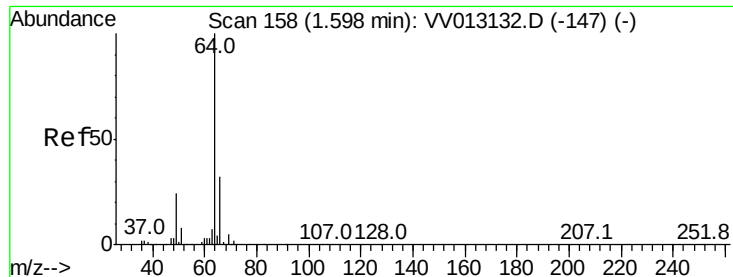
96 94.7 68.0 126.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

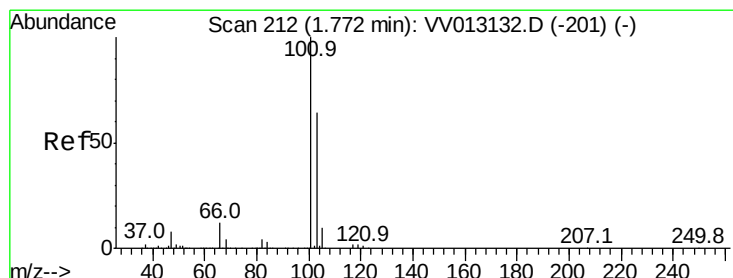
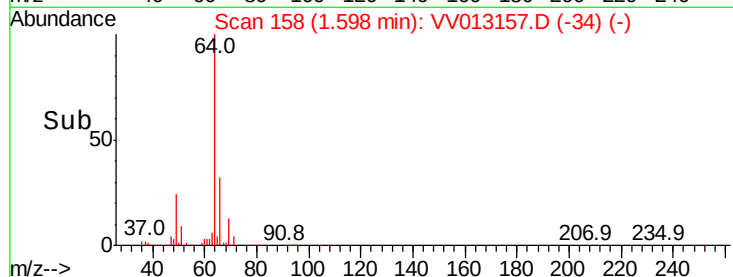
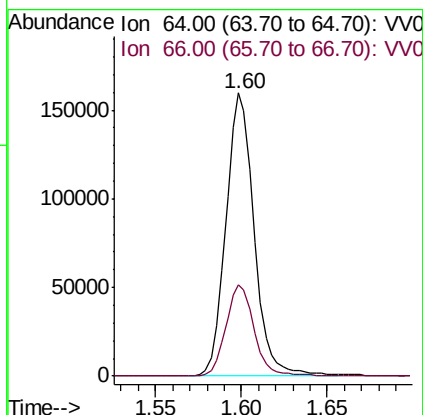
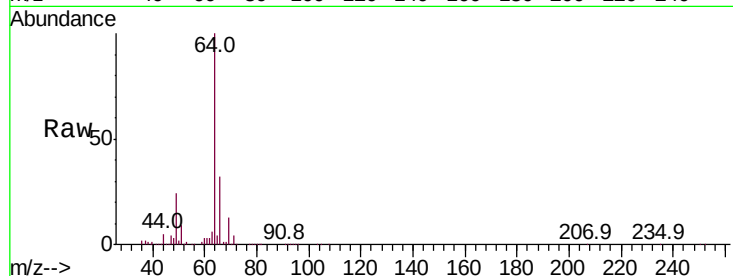




#8
Chloroethane
Concen: 49.919 ug/L
RT: 1.60 min Scan# 158
Delta R.T. 0.00 min
Lab File: VV013157.D
Acq: 15 Oct 2019 09:55

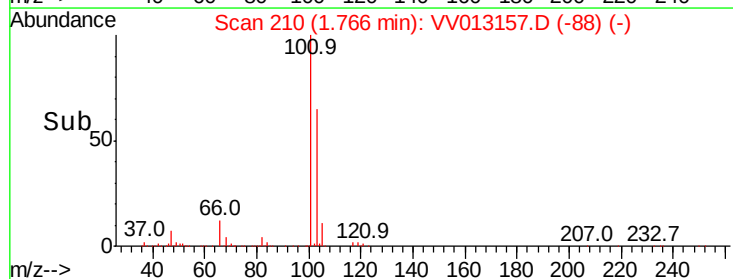
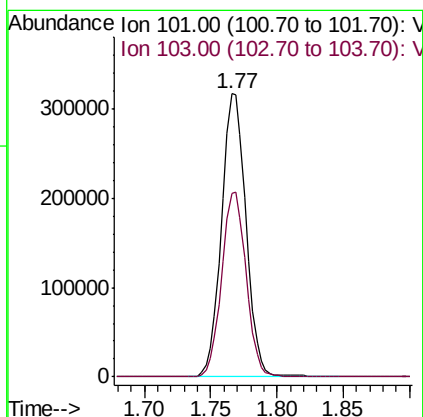
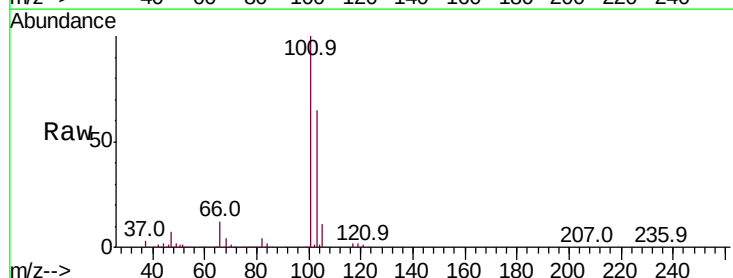
Instrument :
MSVOA_V
ClientSampleId :
VSTD05075

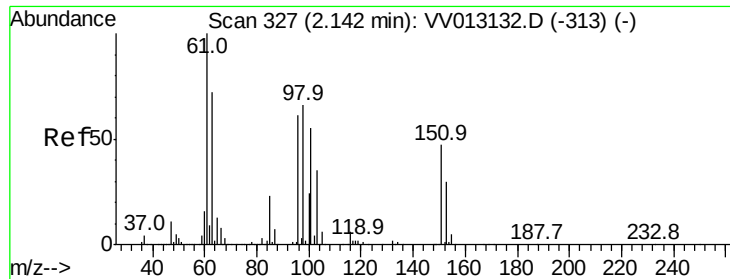
Tot Ion: 64 Resp: 183092
Ion Ratio Lower Upper
64 100
66 32.4 23.0 42.8



#9
Trichlorofluoromethane
Concen: 51.534 ug/L
RT: 1.77 min Scan# 210
Delta R.T. -0.01 min
Lab File: VV013157.D
Acq: 15 Oct 2019 09:55

Tgt Ion: 101 Resp: 407748
Ion Ratio Lower Upper
101 100
103 65.4 51.3 76.9





#10

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

Concen: 51.611 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.01 min

Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

Instrument :

MSVOA_V

ClientSampleId :

VSTD05075

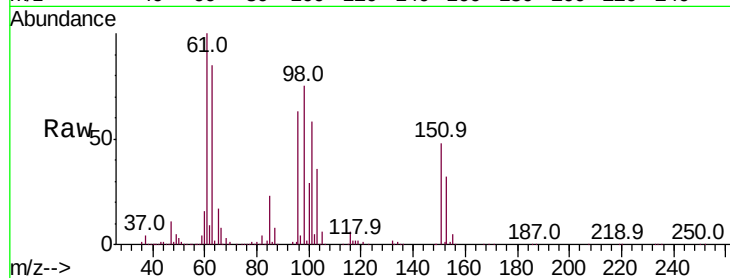
Tot Ion:101 Resp: 240538

Ion Ratio Lower Upper

101 100

85 39.9 32.9 49.3

151 84.8 64.9 97.3



Abundance Ion 101.00 (100.70 to 101.70): VV013132.D (-313) (-)

Ion 85.00 (84.70 to 85.70): VV013157.D (-234) (-)

Ion 151.00 (150.70 to 151.70): VV013157.D (-234) (-)

200000

150000

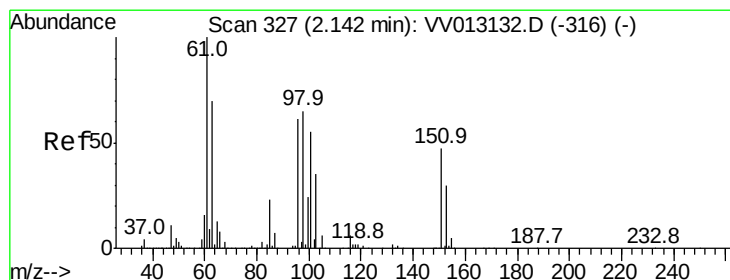
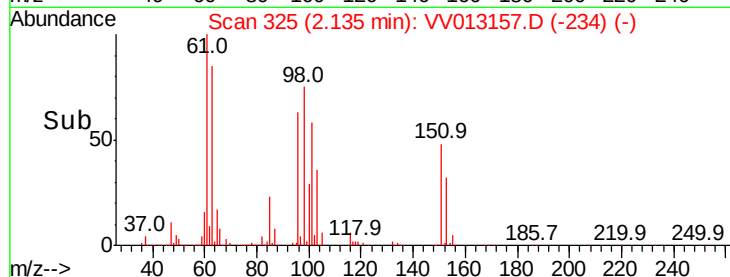
100000

50000

0

2.05 2.10 2.15 2.20

Time-->



#12

1,1-Dichloroethene

Concen: 50.175 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.01 min

Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

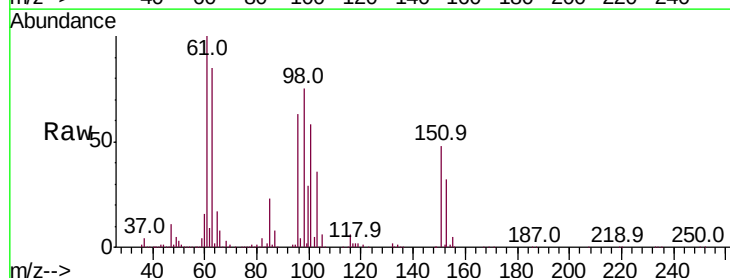
Tgt Ion: 96 Resp: 226272

Ion Ratio Lower Upper

96 100

61 158.5 115.7 214.9

63 134.6 84.3 156.5



Abundance Ion 96.00 (95.70 to 96.70): VV013132.D (-316) (-)

Ion 61.00 (60.70 to 61.70): VV013157.D (-234) (-)

Ion 63.00 (62.70 to 63.70): VV013157.D (-234) (-)

400000

300000

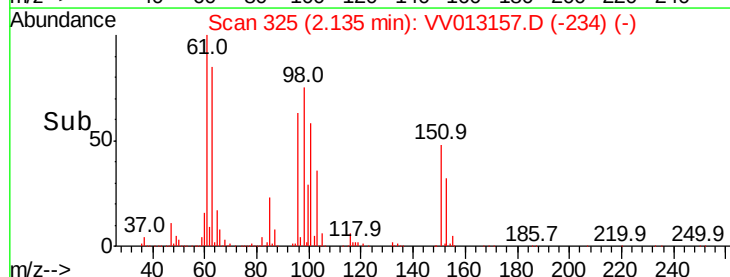
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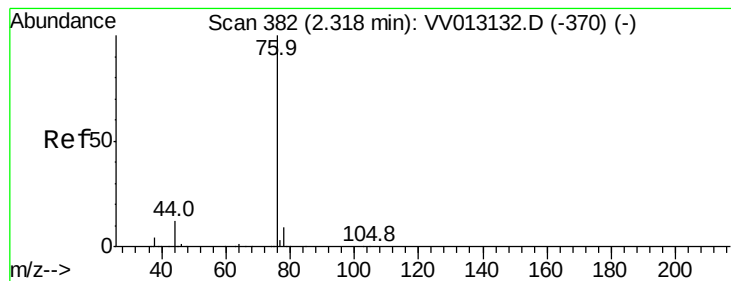
100000

0

2.05 2.10 2.15 2.20

Time-->





#14

Carbon disulfide

Concen: 50.956 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.01 min

Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

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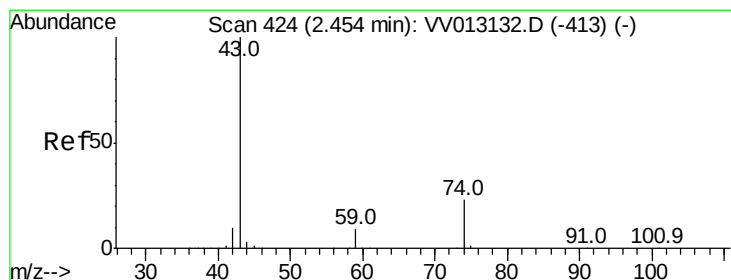
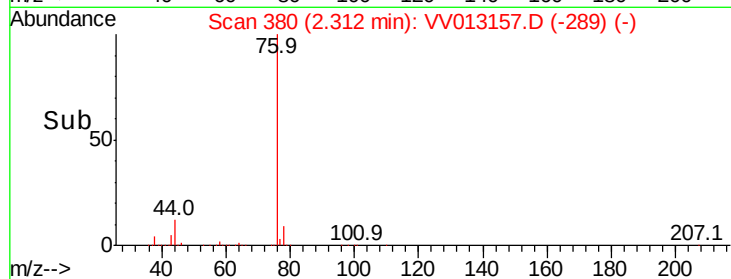
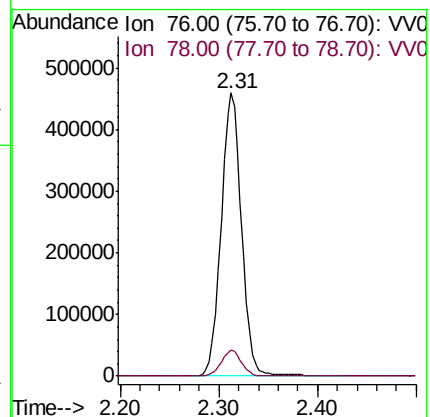
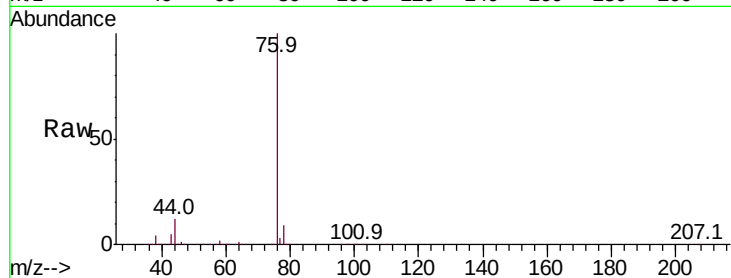
VSTD05075

Tot Ion: 76 Resp: 666423

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9



#15

Methyl Acetate

Concen: 44.214 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.02 min

Lab File: VV013157.D

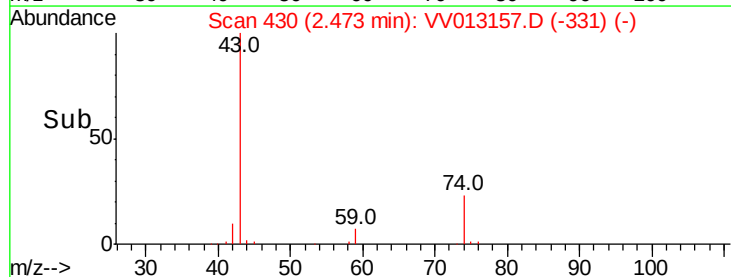
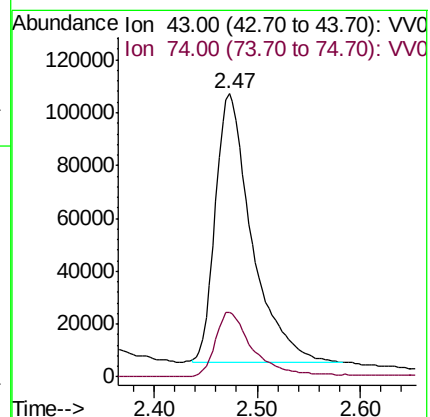
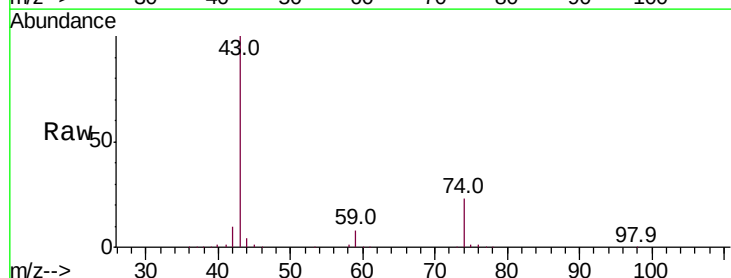
Acq: 15 Oct 2019 09:55

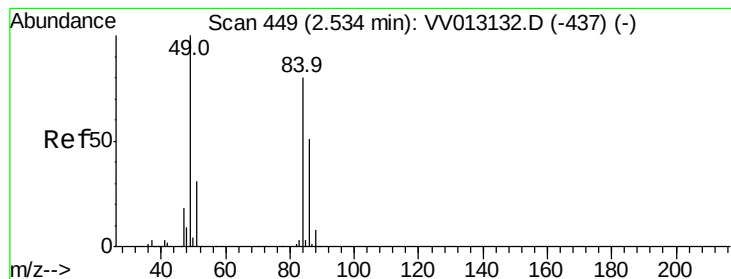
Tgt Ion: 43 Resp: 248645

Ion Ratio Lower Upper

43 100

74 25.1 18.4 27.6





#16

Methylene chloride

Concen: 51.835 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

Instrument :

MSVOA_V

ClientSampleId :

VSTD05075

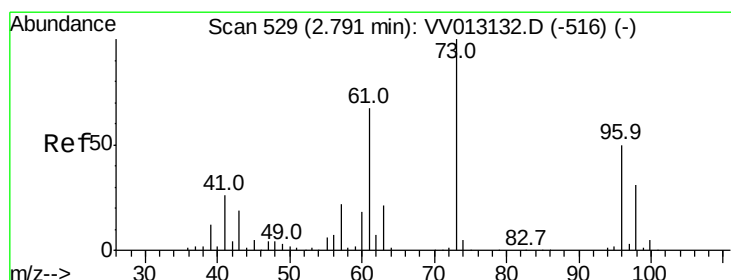
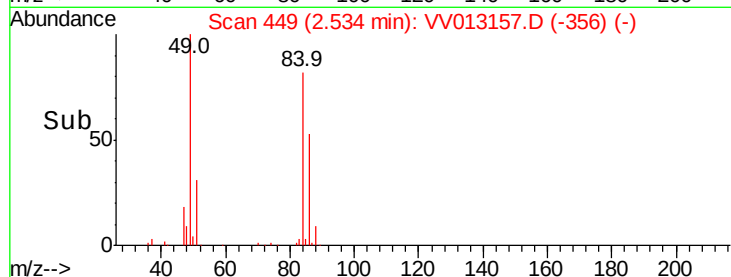
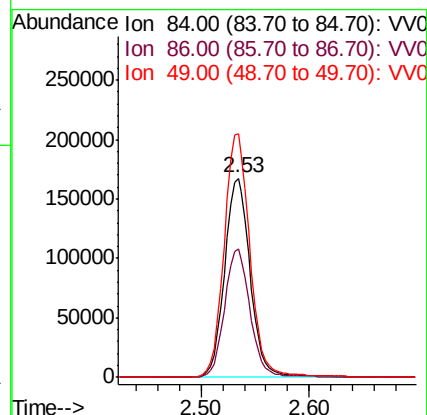
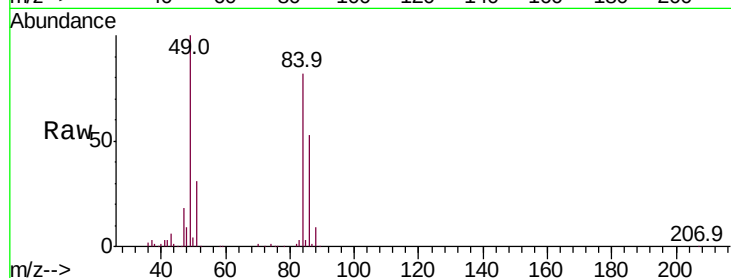
Tot Ion: 84 Resp: 278120

Ion Ratio Lower Upper

84 100

86 64.4 45.1 83.9

49 122.2 87.8 163.0



#17

trans-1,2-Dichloroethene

Concen: 51.361 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

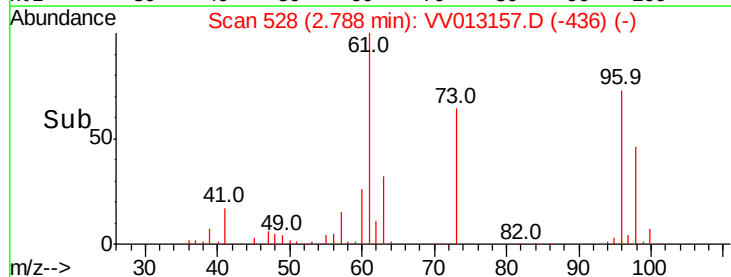
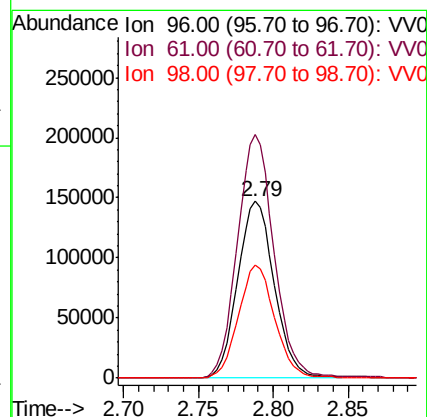
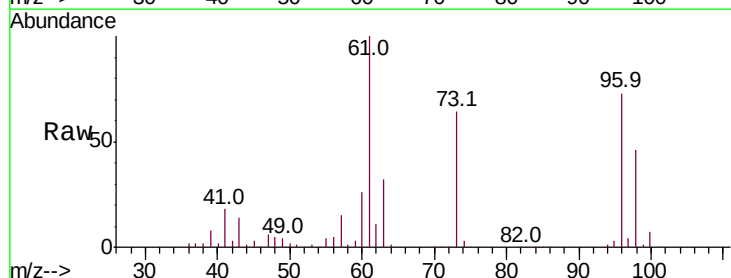
Tgt Ion: 96 Resp: 251275

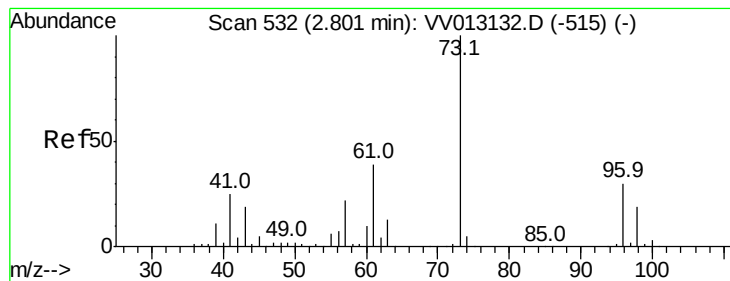
Ion Ratio Lower Upper

96 100

61 137.8 93.9 174.5

98 63.8 43.9 81.5



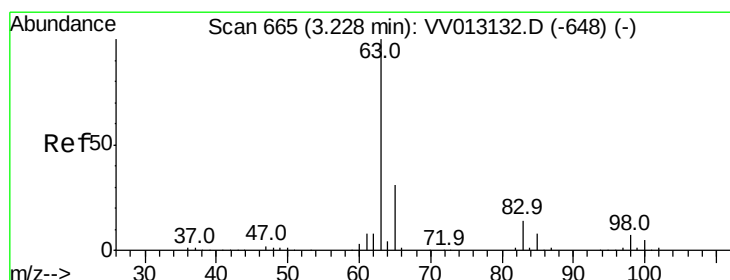
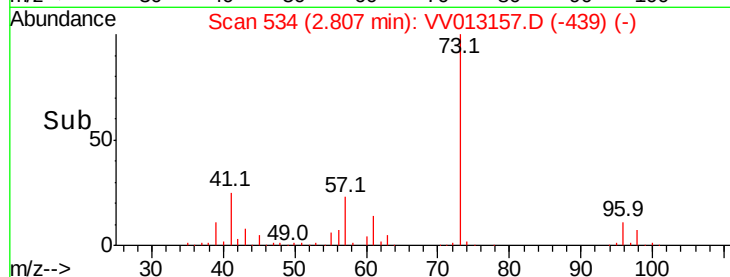
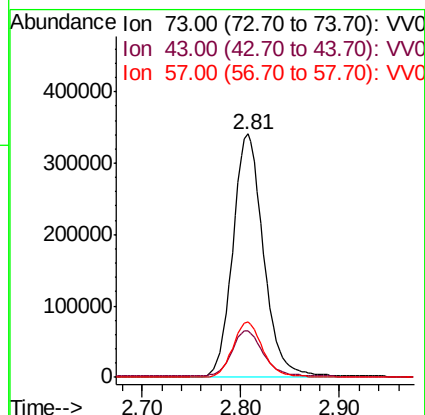
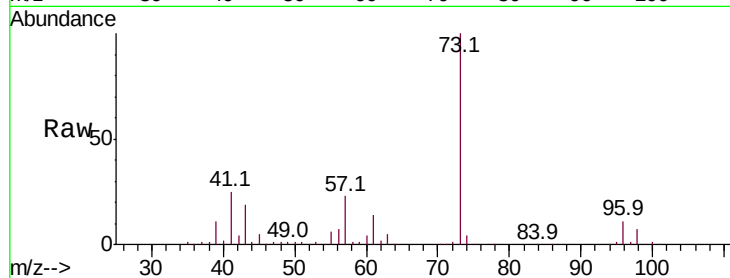


#18

Methyl tert-butyl Ether
 Concen: 50.156 ug/L
 RT: 2.81 min Scan# 534
 Delta R.T. 0.01 min
 Lab File: VV013157.D
 Acq: 15 Oct 2019 09:55

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05075

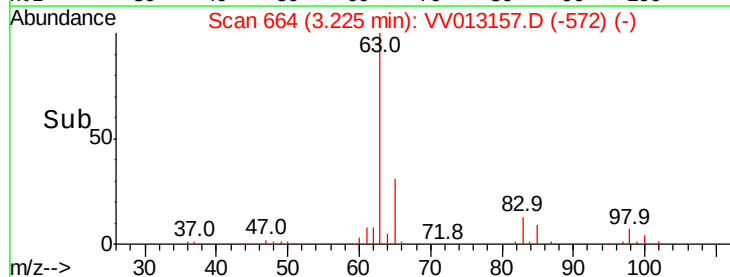
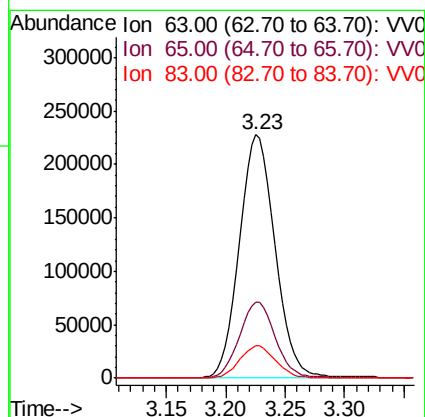
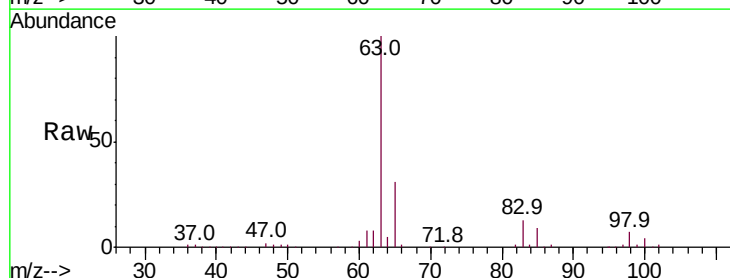
Tot Ion: 73 Resp: 740651
 Ion Ratio Lower Upper
 73 100
 43 19.5 15.0 22.6
 57 22.2 18.2 27.2

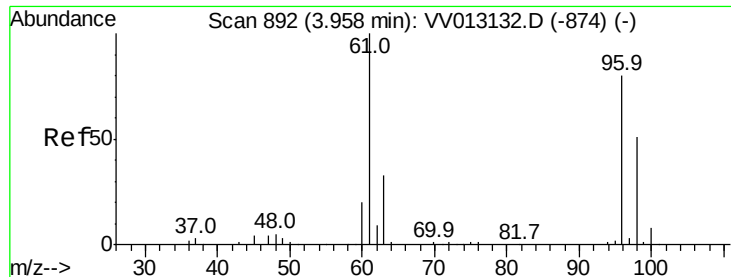


#19

1,1-Dichloroethane
 Concen: 51.498 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: VV013157.D
 Acq: 15 Oct 2019 09:55

Tgt Ion: 63 Resp: 475248
 Ion Ratio Lower Upper
 63 100
 65 31.4 22.1 41.1
 83 13.1 9.5 17.7

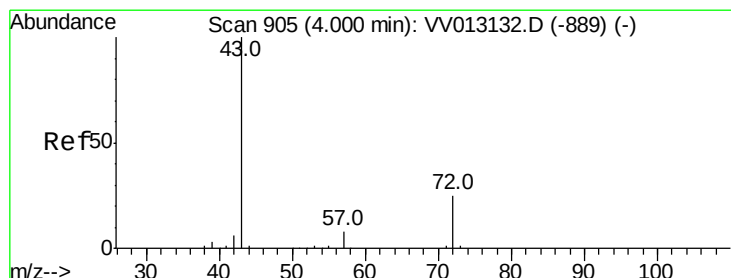
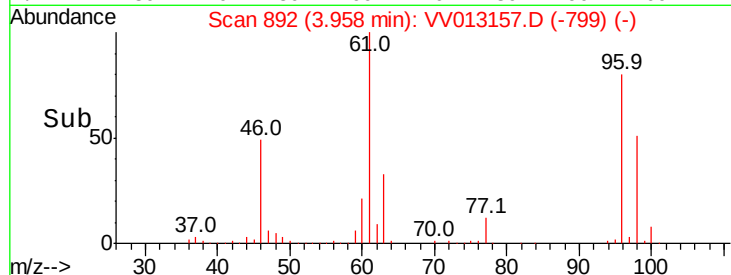
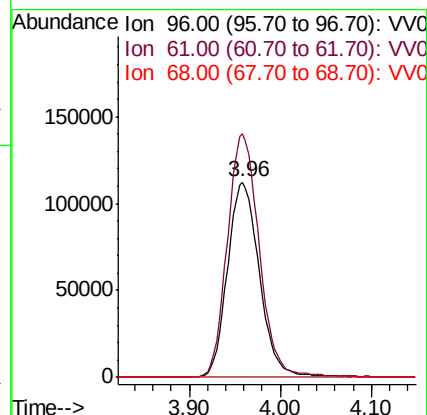
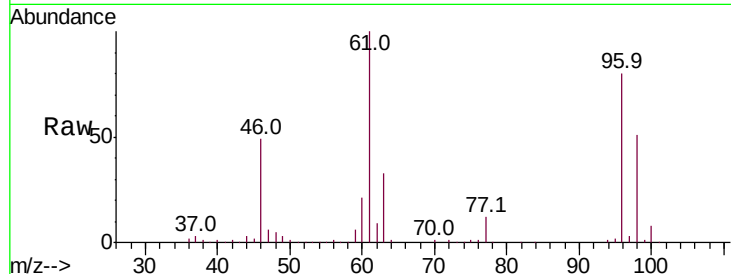




#20
 cis-1,2-Dichloroethene
 Concen: 49.254 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VV013157.D
 Acq: 15 Oct 2019 09:55

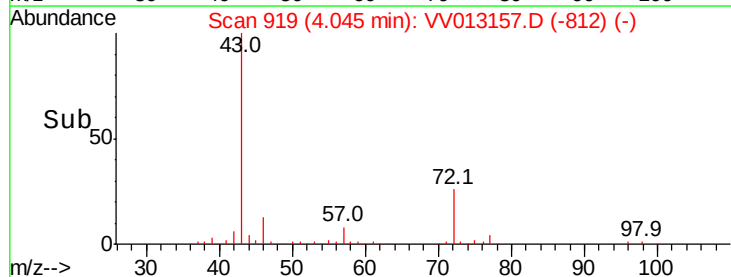
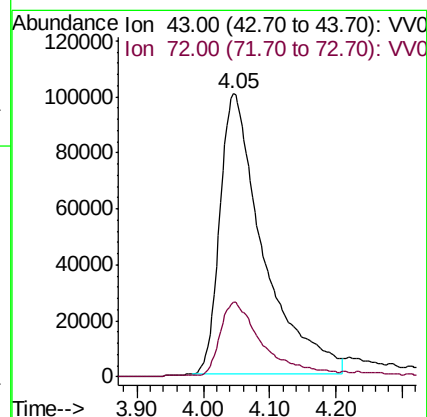
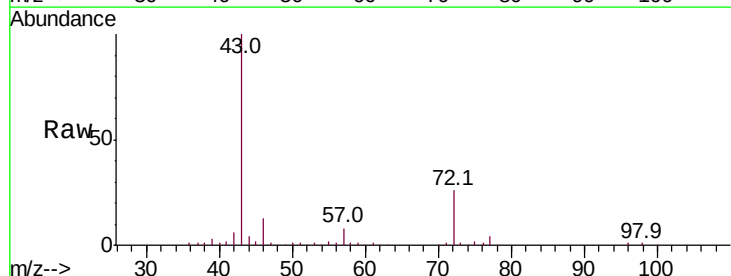
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05075

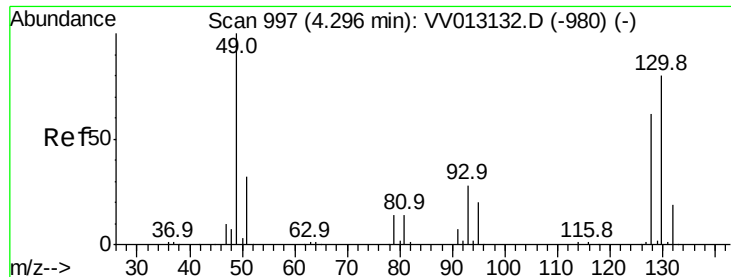
Tot Ion: 96 Resp: 272718
 Ion Ratio Lower Upper
 96 100
 61 124.7 87.5 162.5
 68 0.0 0.0 0.0



#22
 2-Butanone
 Concen: 113.420 ug/L
 RT: 4.05 min Scan# 919
 Delta R.T. 0.05 min
 Lab File: VV013157.D
 Acq: 15 Oct 2019 09:55

Tgt Ion: 43 Resp: 458128
 Ion Ratio Lower Upper
 43 100
 72 25.2 12.8 38.4





#23

Bromochloromethane

Concen: 51.645 ug/L

RT: 4.30 min Scan# 997

Delta R.T. 0.00 min

Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

Instrument :
MSVOA_V
ClientSampleId :
VSTD05075

Tot Ion:128 Resp: 145236

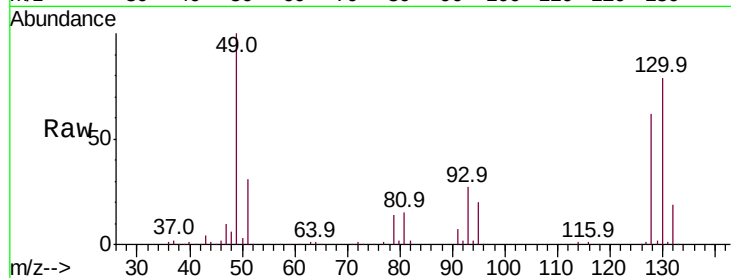
Ion Ratio Lower Upper

128 100

49 161.2 114.0 211.6

130 127.2 90.8 168.6

51 50.6 41.0 61.4

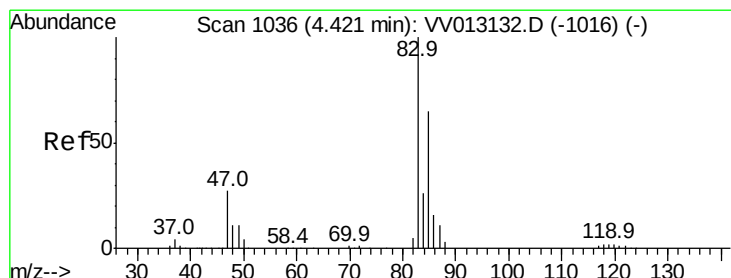
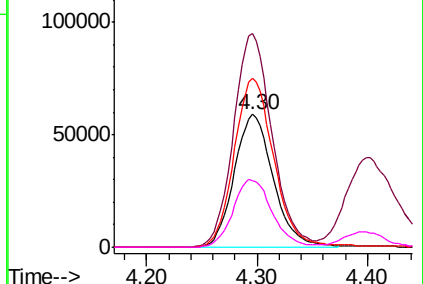
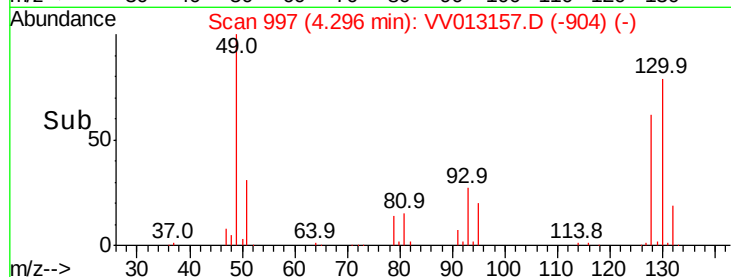


Abundance Ion 128.00 (127.70 to 128.70): VV013157.D (-904) (-)

Ion 49.00 (48.70 to 49.70): VV013157.D (-904) (-)

Ion 130.00 (129.70 to 130.70): VV013157.D (-904) (-)

Ion 51.00 (50.70 to 51.70): VV013157.D (-904) (-)



#25

Chloroform

Concen: 52.305 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VV013157.D

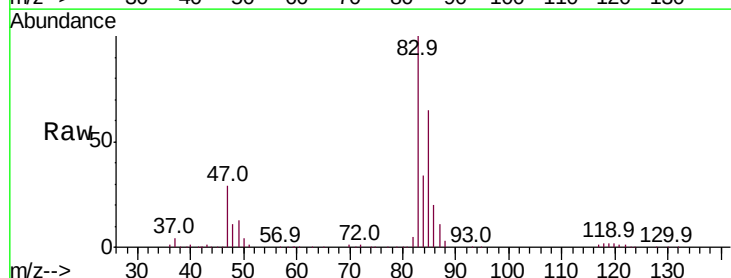
Acq: 15 Oct 2019 09:55

Tgt Ion: 83 Resp: 486356

Ion Ratio Lower Upper

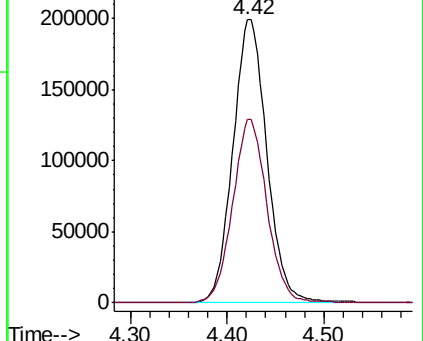
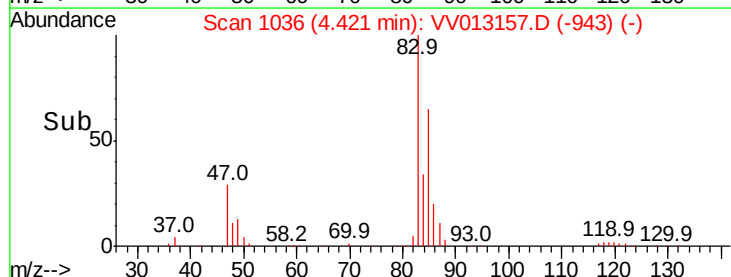
83 100

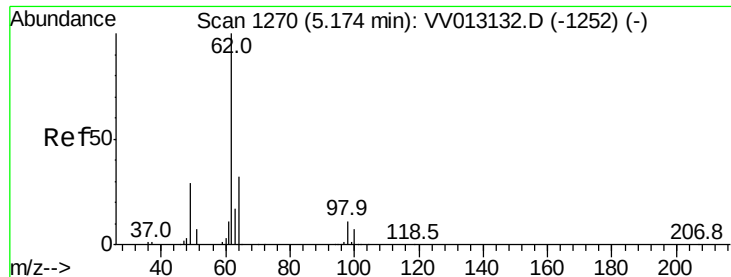
85 64.8 44.7 82.9



Abundance Ion 83.00 (82.70 to 83.70): VV013157.D (-943) (-)

Ion 85.00 (84.70 to 85.70): VV013157.D (-943) (-)

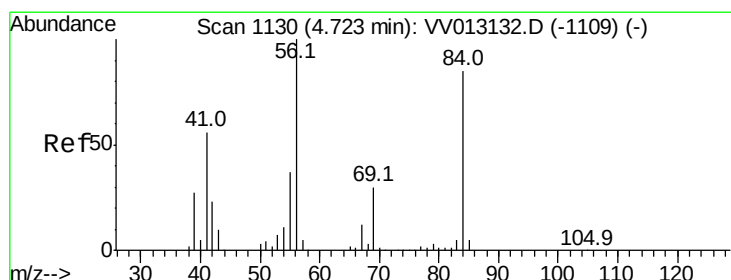
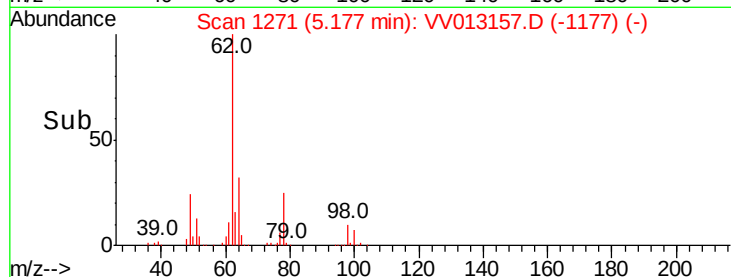
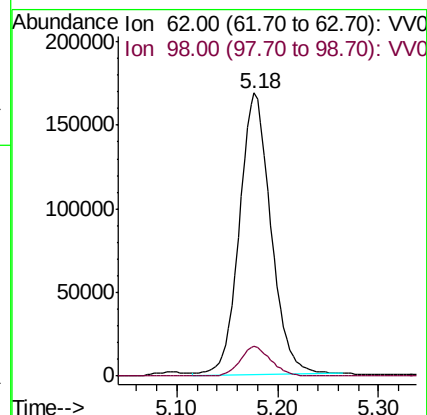
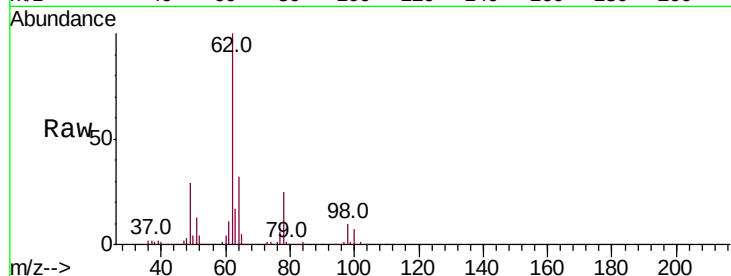




#27
 1,2-Dichloroethane
 Concen: 51.259 ug/L
 RT: 5.18 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: VV013157.D
 Acq: 15 Oct 2019 09:55

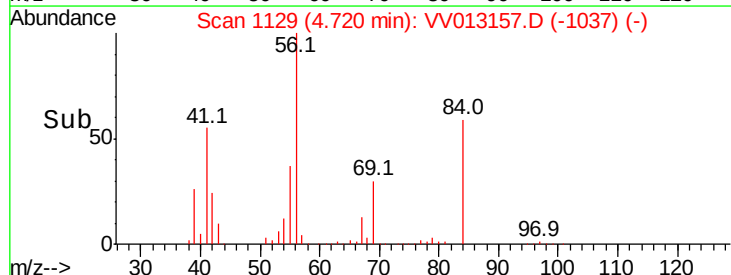
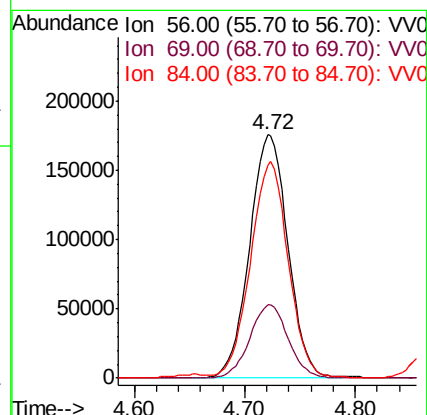
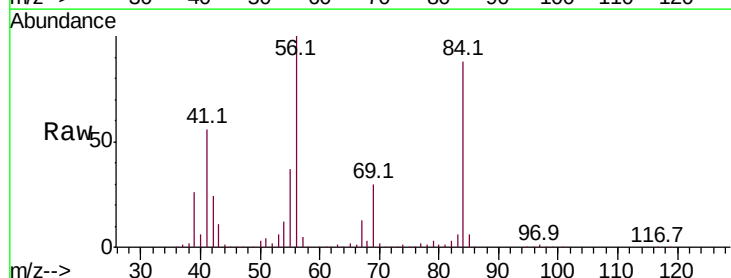
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05075

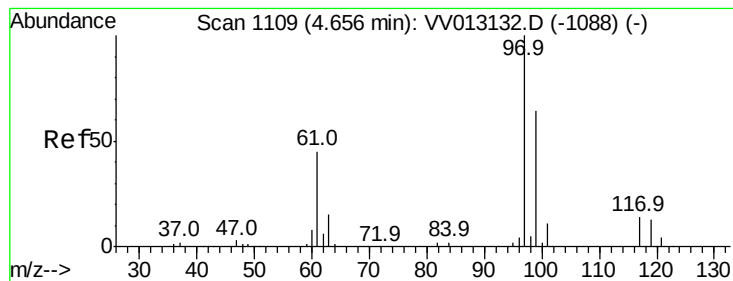
Tot Ion: 62 Resp: 365362
 Ion Ratio Lower Upper
 62 100
 98 10.4 8.3 12.5



#29
 Cyclohexane
 Concen: 49.991 ug/L
 RT: 4.72 min Scan# 1129
 Delta R.T. -0.00 min
 Lab File: VV013157.D
 Acq: 15 Oct 2019 09:55

Tgt Ion: 56 Resp: 423897
 Ion Ratio Lower Upper
 56 100
 69 30.3 24.2 36.4
 84 87.8 69.9 104.9





#30

1,1,1-Trichloroethane

Concen: 50.538 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

Instrument :

MSVOA_V

ClientSampled :

VSTD05075

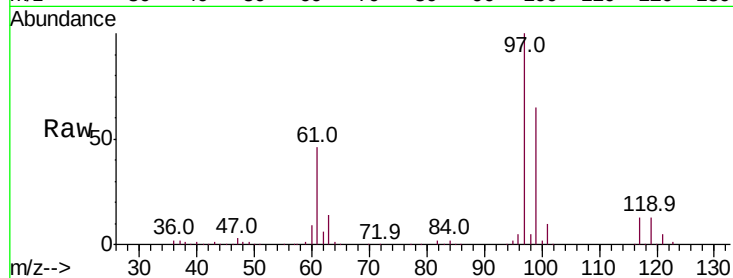
Tot Ion: 97 Resp: 397041

Ion Ratio Lower Upper

97 100

99 64.1 51.9 77.9

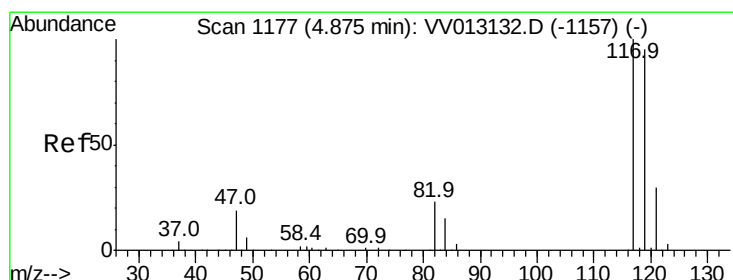
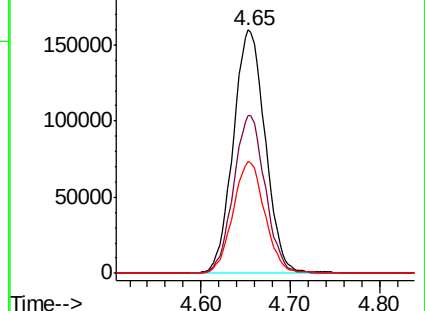
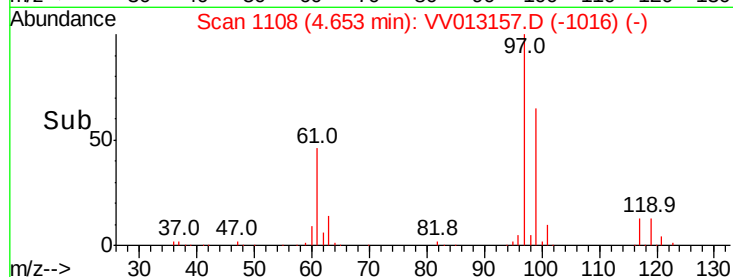
61 45.9 36.8 55.2



Abundance Ion 97.00 (96.70 to 97.70): VV013132.D (-1088) (-)

Ion 99.00 (98.70 to 99.70): VV013132.D (-1088) (-)

Ion 61.05 (60.75 to 61.75): VV013132.D (-1088) (-)



#31

Carbon tetrachloride

Concen: 51.176 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV013157.D

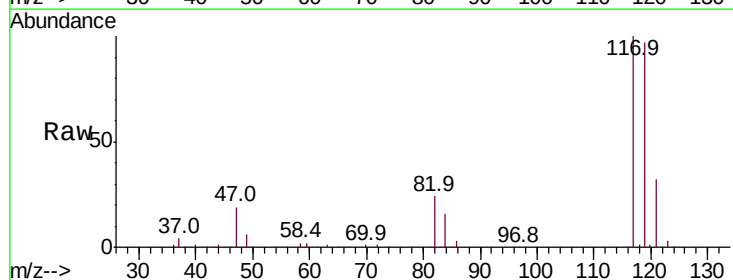
Acq: 15 Oct 2019 09:55

Tgt Ion: 117 Resp: 357256

Ion Ratio Lower Upper

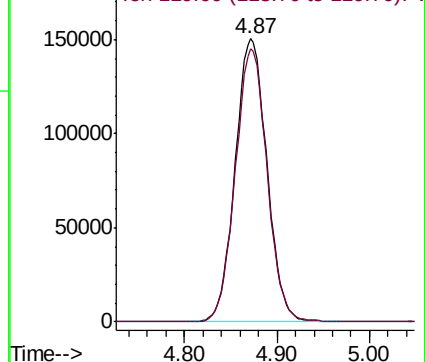
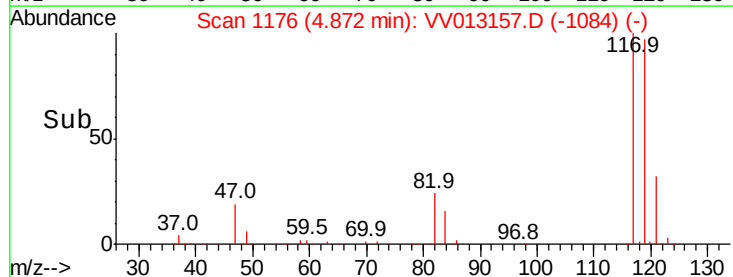
117 100

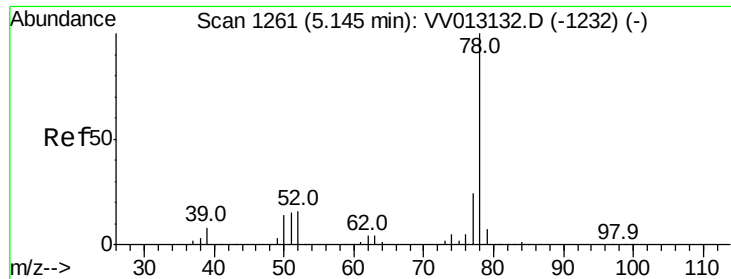
119 96.5 77.4 116.0



Abundance Ion 117.00 (116.70 to 117.70): VV013132.D (-1157) (-)

Ion 119.00 (118.70 to 119.70): VV013132.D (-1157) (-)

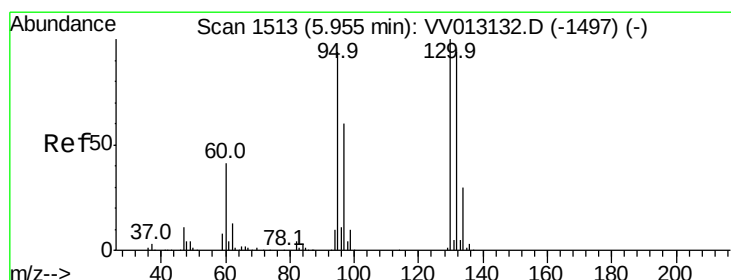
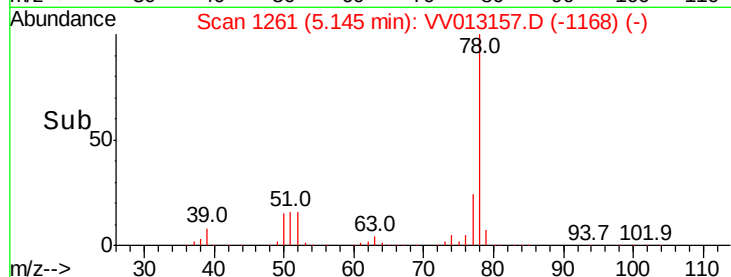
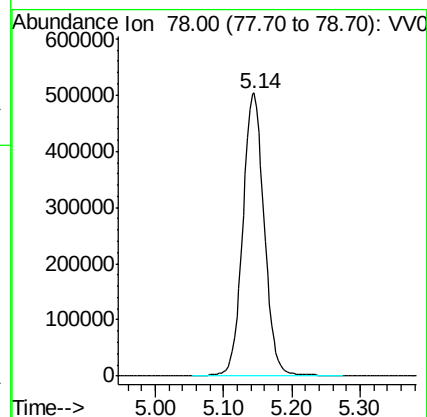
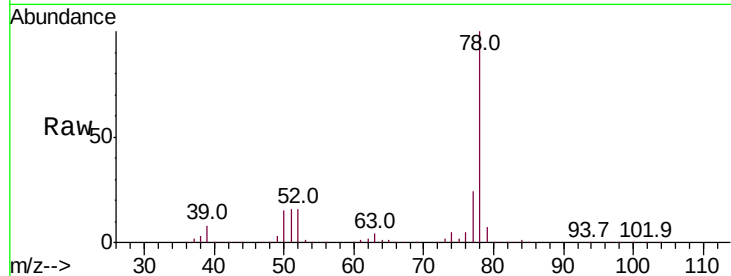




#33
Benzene
Concen: 50.984 ug/L
RT: 5.14 min Scan# 1261
Delta R.T. 0.00 min
Lab File: VV013157.D
Acq: 15 Oct 2019 09:55

Instrument :
MSVOA_V
ClientSampleId :
VSTD05075

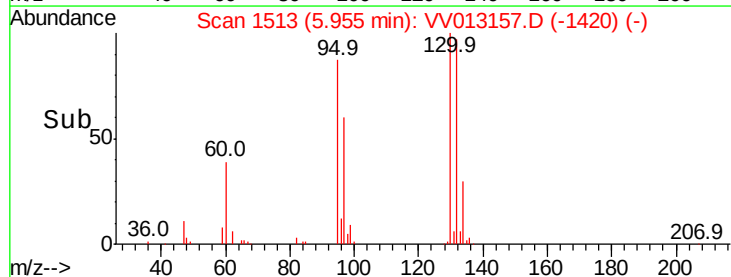
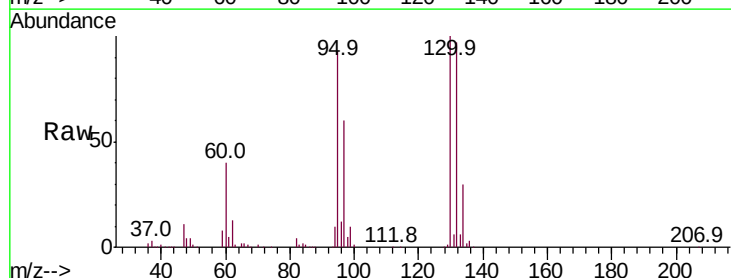
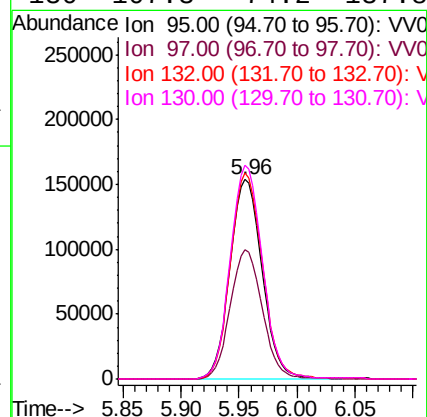
Tgt Ion: 78 Resp: 1099468

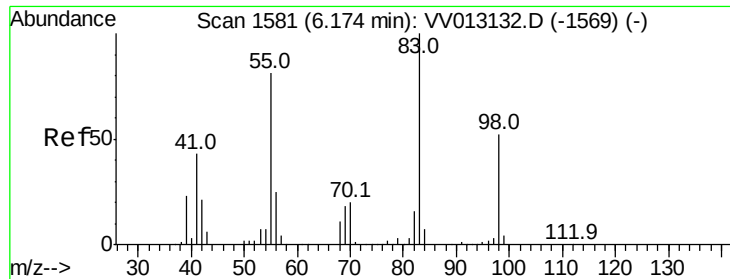


#34
Trichloroethene
Concen: 51.571 ug/L
RT: 5.96 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VV013157.D
Acq: 15 Oct 2019 09:55

Tgt Ion: 95 Resp: 296114

Ion	Ratio	Lower	Upper
95	100		
97	64.9	44.7	82.9
132	103.5	71.4	132.6
130	107.3	74.2	137.8

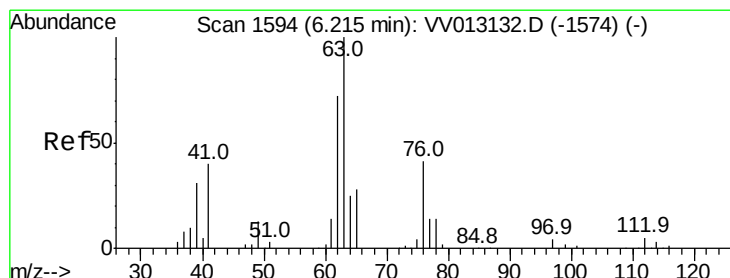
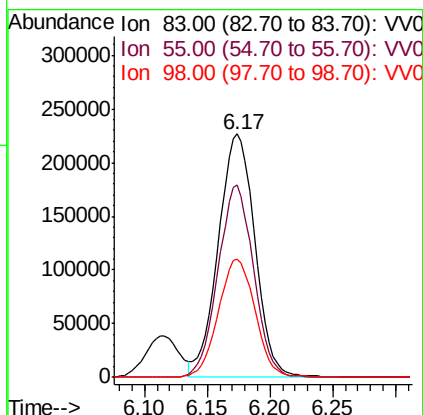
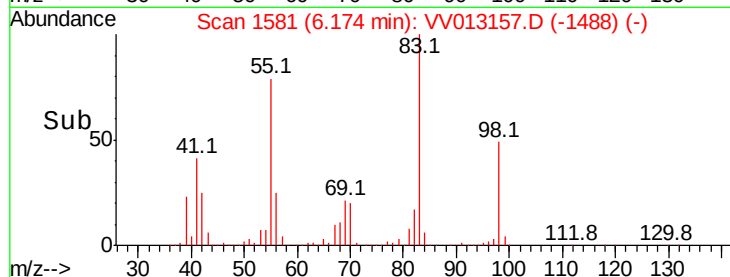
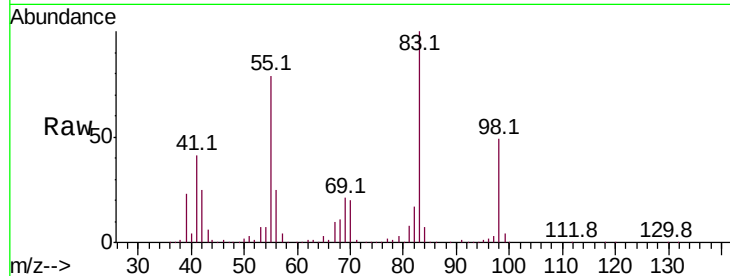




#35
Methylvlcyclohexane
Concen: 52.904 ug/L
RT: 6.17 min Scan# 1581
Delta R.T. 0.00 min
Lab File: VV013157.D
Acq: 15 Oct 2019 09:55

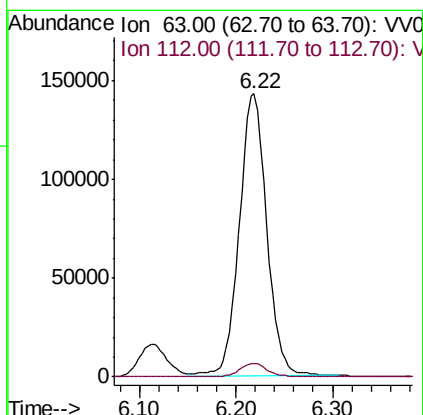
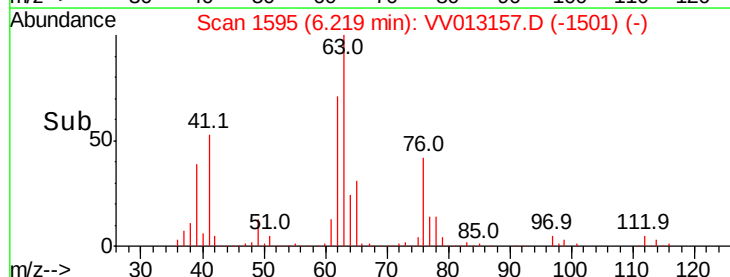
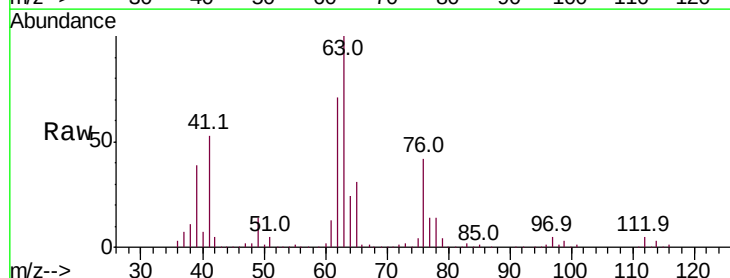
Instrument :
MSVOA_V
ClientSampleId :
VSTD05075

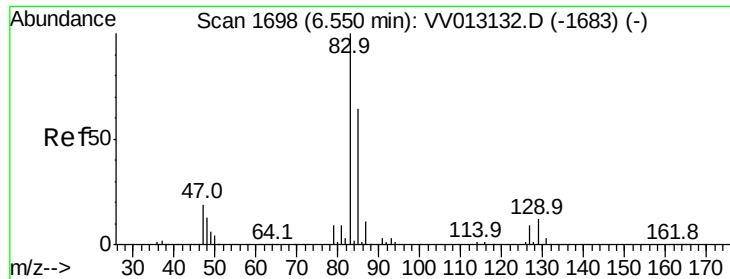
Tot Ion: 83 Resp: 459498
Ion Ratio Lower Upper
83 100
55 77.1 61.2 91.8
98 49.0 40.1 60.1



#37
1,2-Dichloropropane
Concen: 50.428 ug/L
RT: 6.22 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VV013157.D
Acq: 15 Oct 2019 09:55

Tgt Ion: 63 Resp: 281597
Ion Ratio Lower Upper
63 100
112 4.7 3.8 5.8

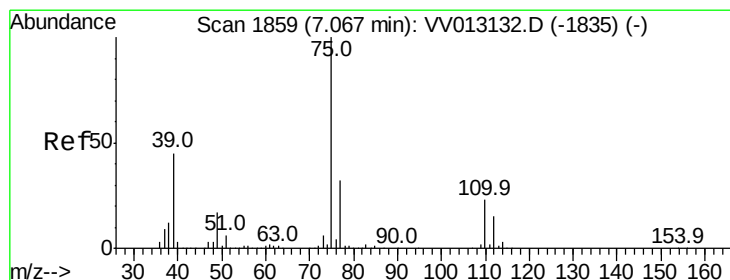
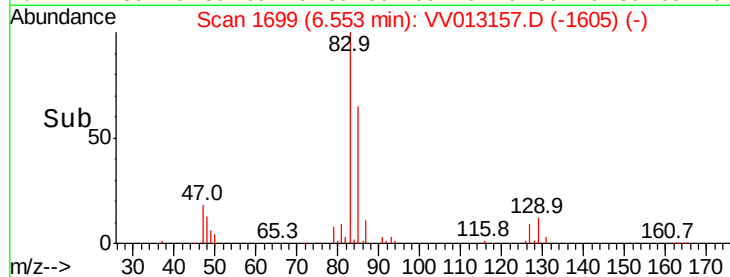
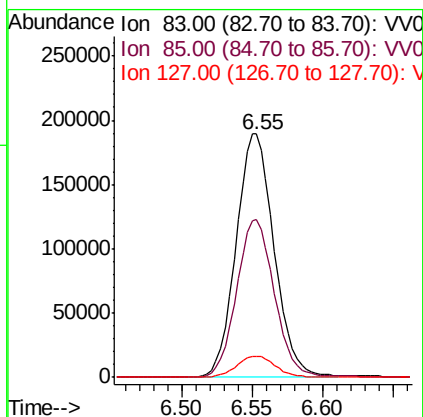
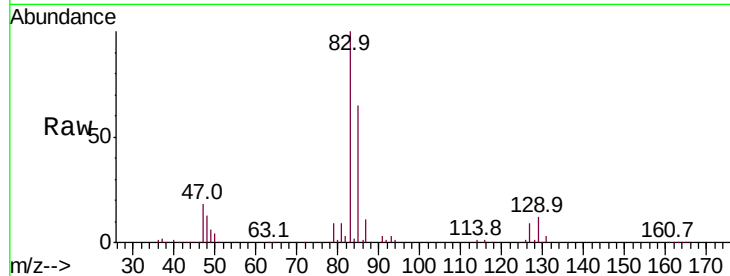




#38
 Bromodichloromethane
 Concen: 50.270 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV013157.D
 Acq: 15 Oct 2019 09:55

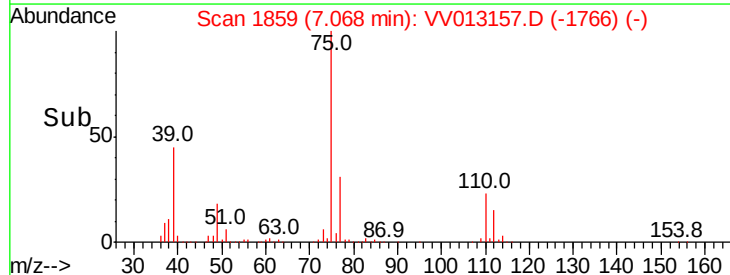
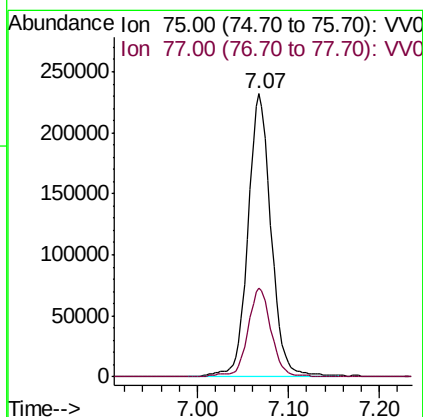
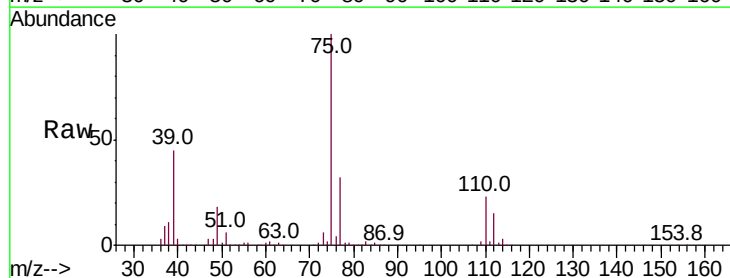
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05075

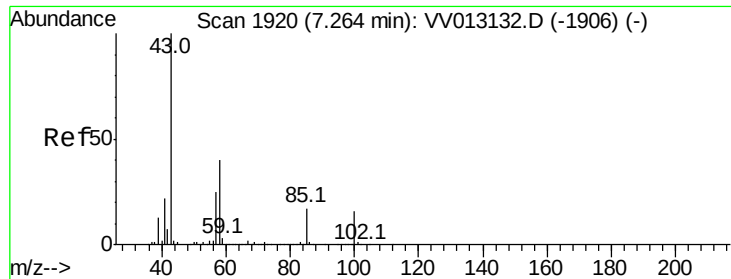
Tot Ion: 83 Resp: 357182
 Ion Ratio Lower Upper
 83 100
 85 64.7 45.8 85.0
 127 8.8 7.4 11.0



#39
 cis-1,3-Dichloropropene
 Concen: 49.687 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV013157.D
 Acq: 15 Oct 2019 09:55

Tgt Ion: 75 Resp: 410357
 Ion Ratio Lower Upper
 75 100
 77 31.5 21.7 40.3

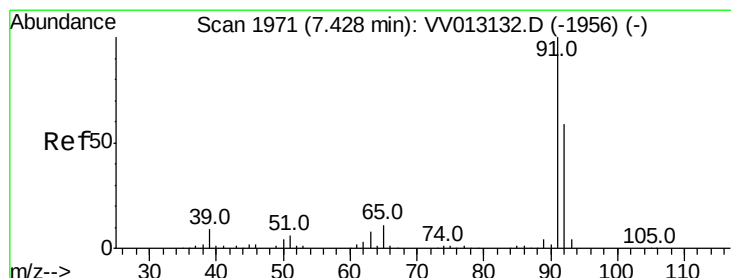
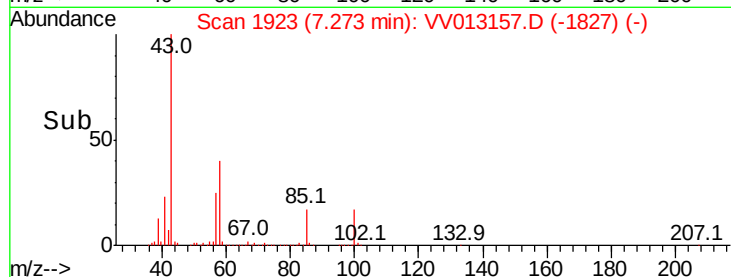
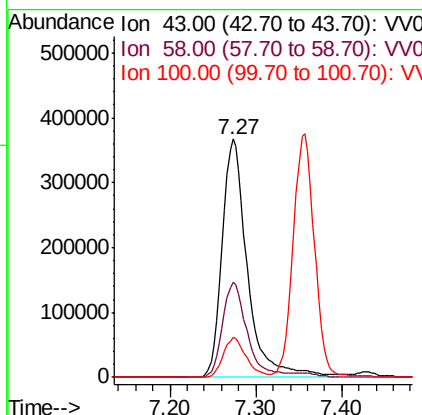
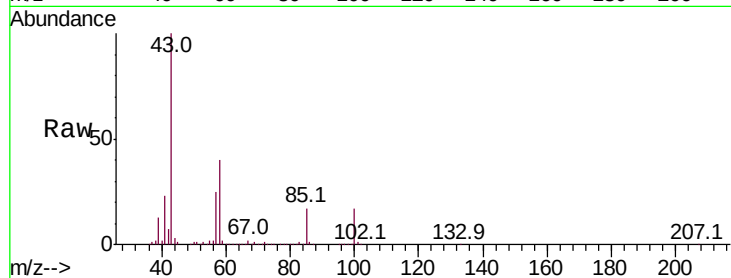




#40
4-Methyl-2-pentanone
Concen: 102.651 ug/L
RT: 7.27 min Scan# 1923
Delta R.T. 0.01 min
Lab File: VV013157.D
Acq: 15 Oct 2019 09:55

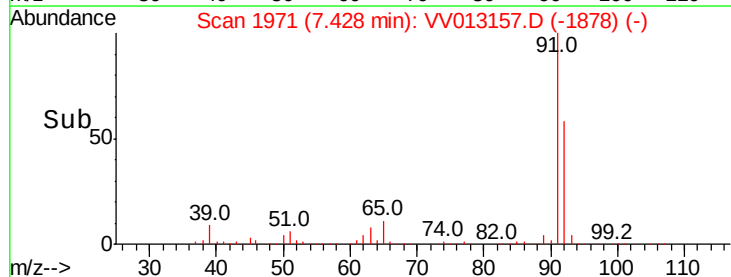
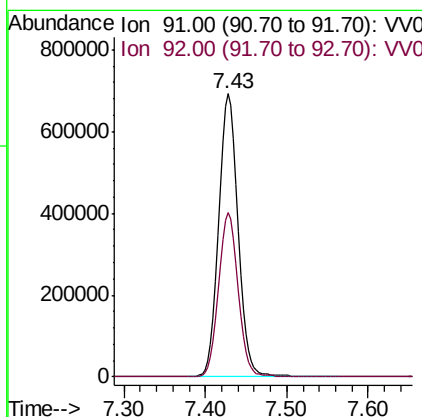
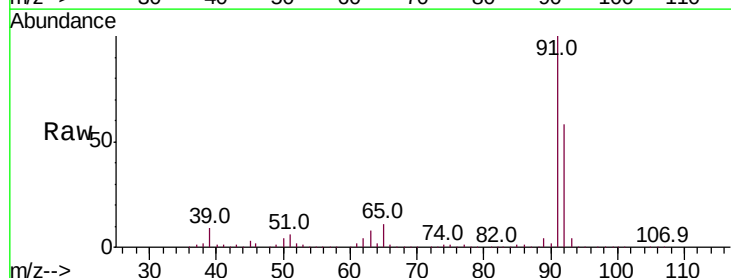
Instrument :
MSVOA_V
ClientSampleId :
VSTD05075

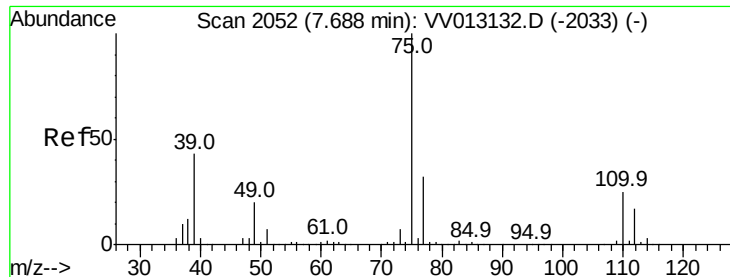
Tot Ion: 43 Resp: 750367
Ion Ratio Lower Upper
43 100
58 38.5 32.0 48.0
100 15.2 12.7 19.1



#42
Toluene
Concen: 52.906 ug/L
RT: 7.43 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VV013157.D
Acq: 15 Oct 2019 09:55

Tgt Ion: 91 Resp: 1174538
Ion Ratio Lower Upper
91 100
92 57.9 40.8 75.8





#44

trans-1,3-Dichloropropene

Concen: 50.700 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

Instrument :

MSVOA_V

ClientSampleId :

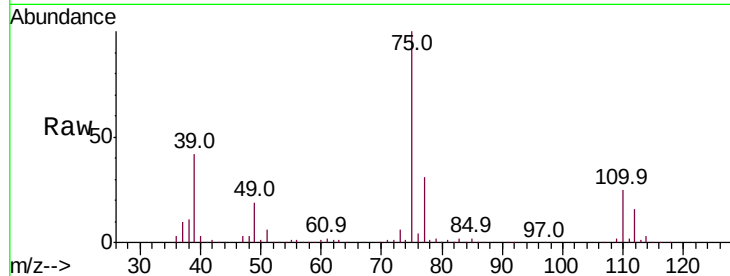
VSTD05075

Tot Ion: 75 Resp: 362969

Ion Ratio Lower Upper

75 100

77 31.2 22.0 41.0



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

250000

200000

150000

100000

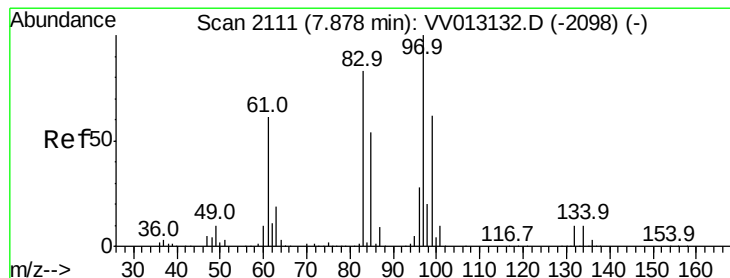
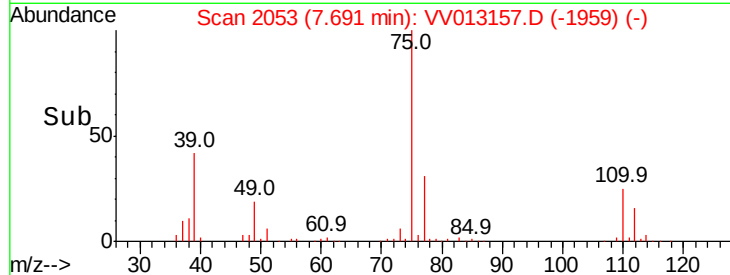
50000

0

7.69

7.60 7.70 7.80

Time-->



#45

1,1,2-Trichloroethane

Concen: 50.858 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

Tgt Ion: 97 Resp: 269630

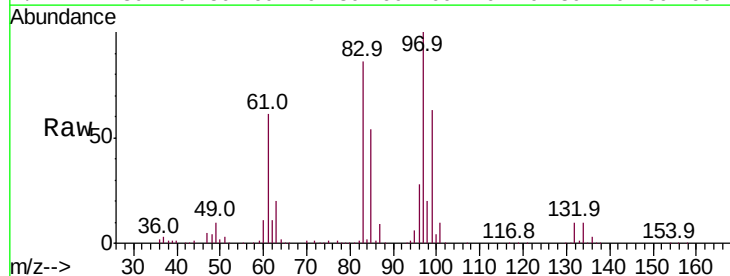
Ion Ratio Lower Upper

97 100

99 63.1 44.4 82.5

83 86.0 58.2 108.0

85 54.1 38.7 71.9



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

250000

200000

150000

100000

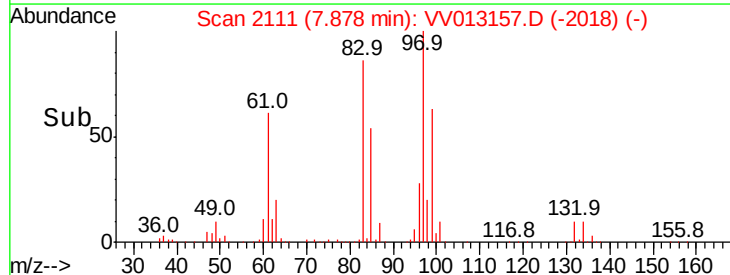
50000

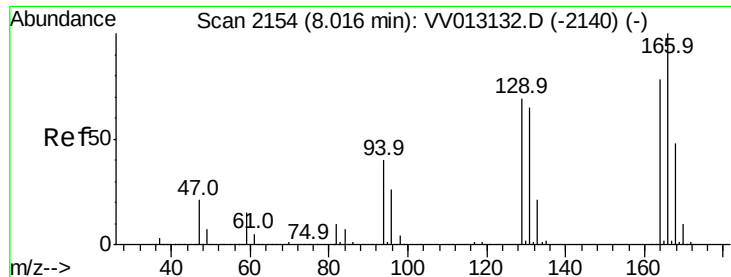
0

7.88

7.80 7.85 7.90 7.95

Time-->





#46

Tetrachloroethene

Concen: 53.031 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

Instrument :

MSVOA_V

ClientSampleId :

VSTD05075

Tot Ion:164 Resp: 241069

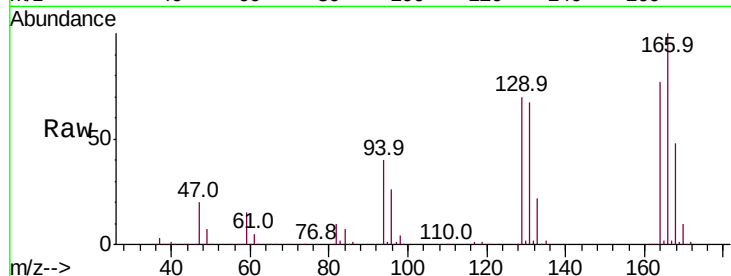
Ion Ratio Lower Upper

164 100

129 90.2 63.1 117.1

131 87.5 62.4 116.0

166 129.8 91.3 169.6

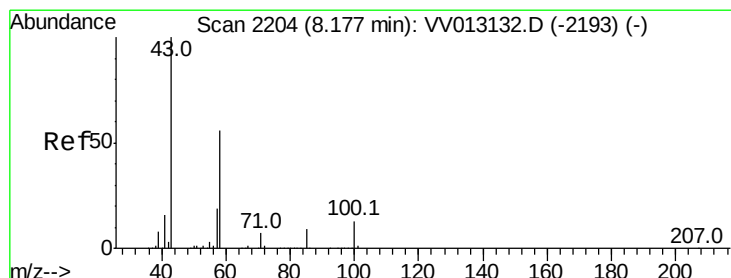
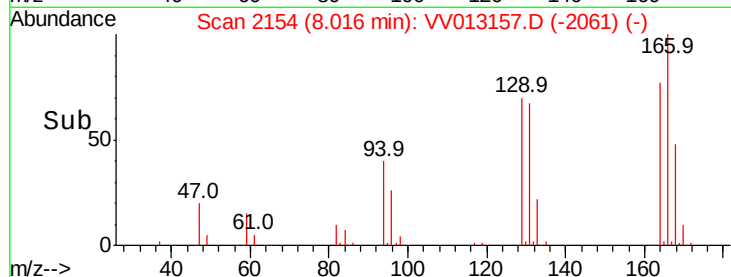
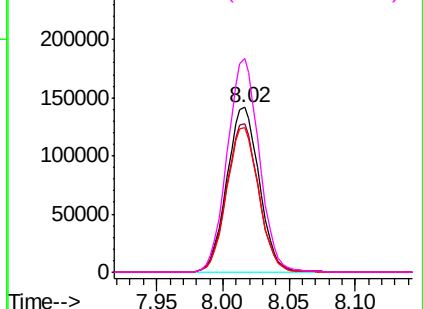


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 121.951 ug/L

RT: 8.18 min Scan# 2206

Delta R.T. 0.01 min

Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

Tgt Ion: 43 Resp: 689347

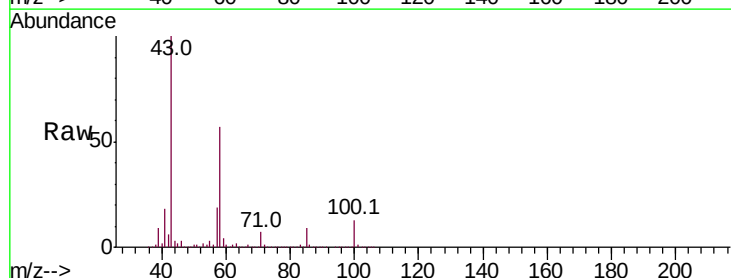
Ion Ratio Lower Upper

43 100

58 55.5 44.9 67.3

57 18.3 15.0 22.6

100 12.5 10.2 15.2

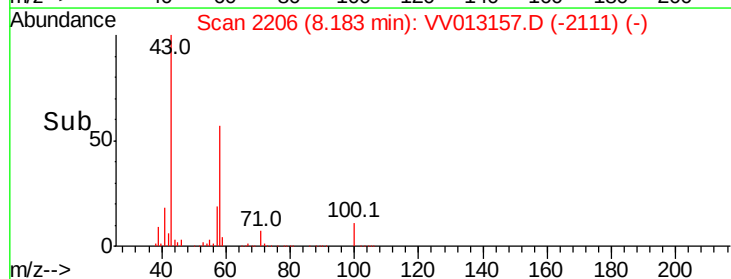
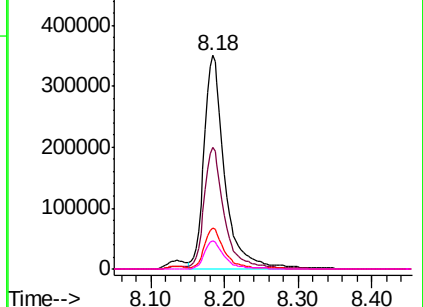


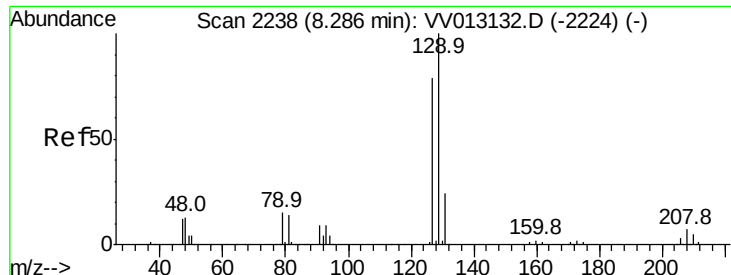
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#49

Dibromochloromethane

Concen: 51.032 ug/L

RT: 8.29 min Scan# 2238

Delta R.T. 0.00 min

Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

Instrument :

MSVOA_V

ClientSampleId :

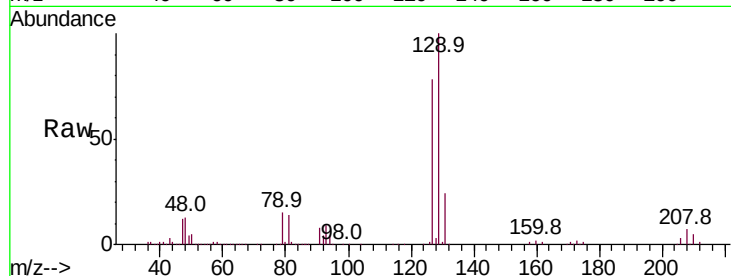
VSTD05075

Tot Ion:129 Resp: 294865

Ion Ratio Lower Upper

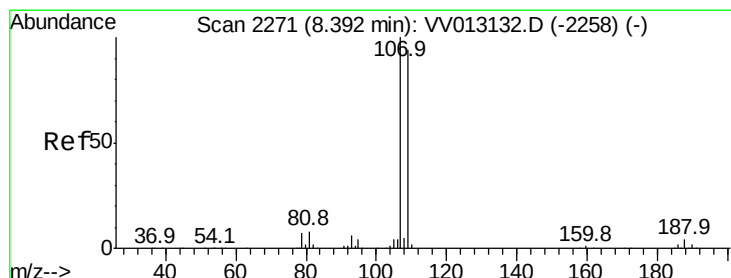
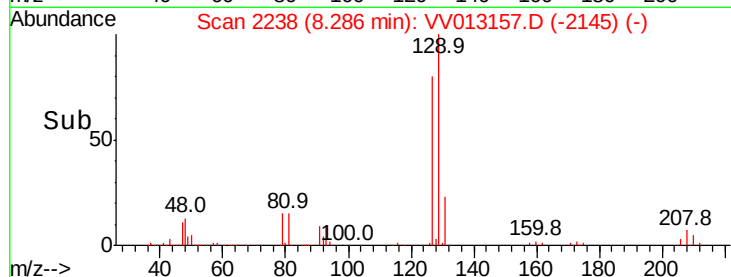
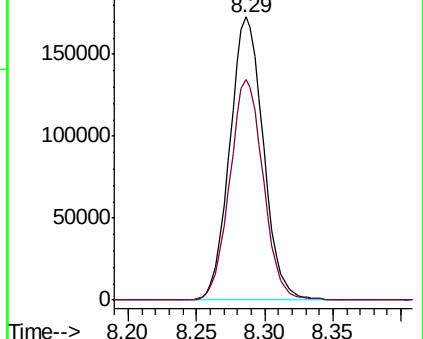
129 100

127 78.0 54.0 100.4



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#50

1,2-Dibromoethane

Concen: 50.620 ug/L

RT: 8.39 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

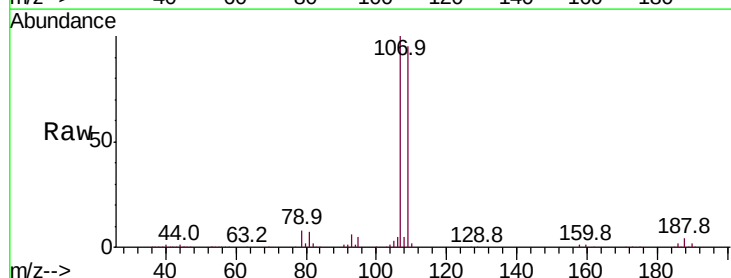
Tgt Ion:107 Resp: 280493

Ion Ratio Lower Upper

107 100

109 95.3 66.6 123.6

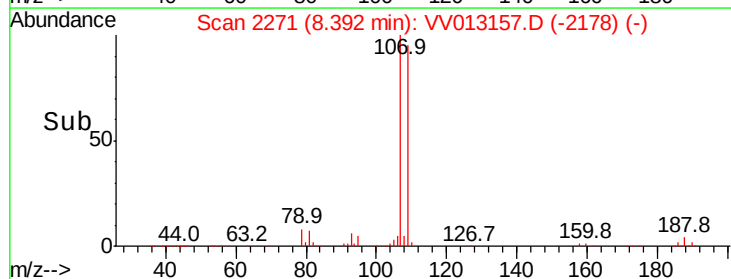
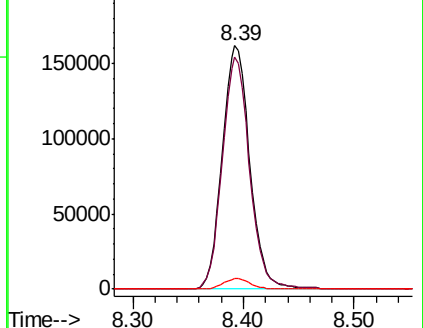
188 4.2 3.4 5.2

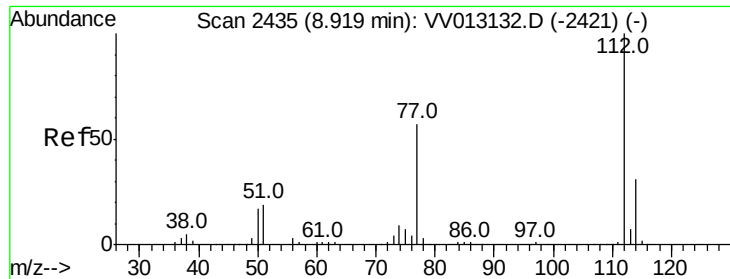


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#51

Chlorobenzene

Concen: 50.774 ug/L

RT: 8.92 min Scan# 2435

Delta R.T. 0.00 min

Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

Instrument :

MSVOA_V

ClientSampleId :

VSTD05075

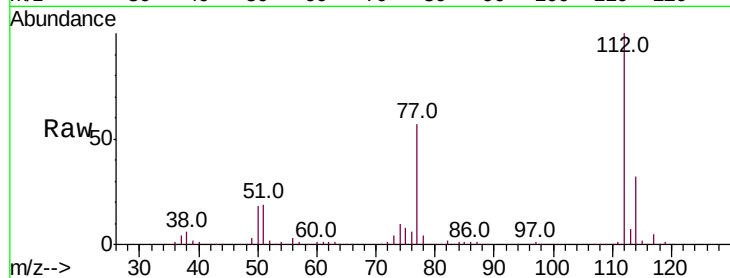
Tot Ion:112 Resp: 739205

Ion Ratio Lower Upper

112 100

114 31.7 22.8 42.4

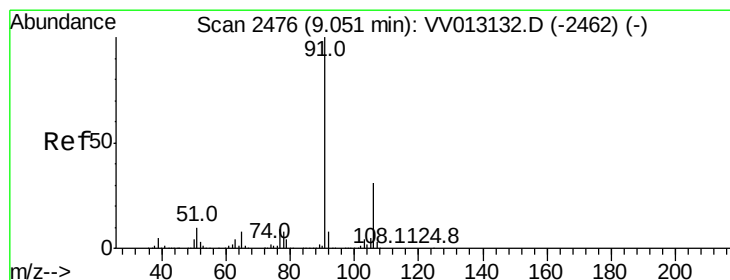
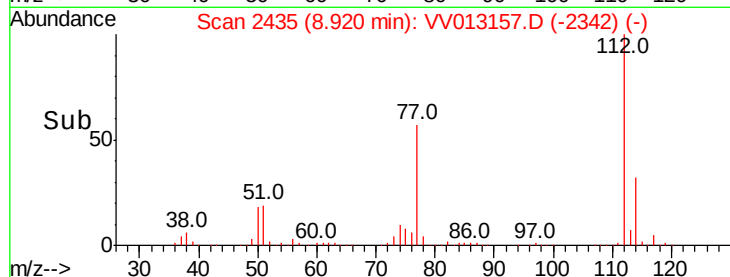
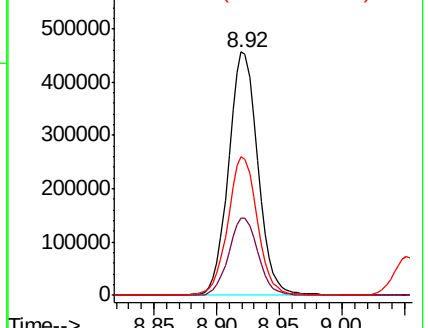
77 57.1 45.1 67.7



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 52.849 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV013157.D

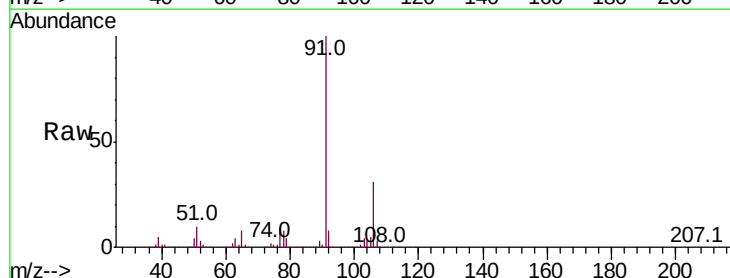
Acq: 15 Oct 2019 09:55

Tgt Ion: 91 Resp: 1253237

Ion Ratio Lower Upper

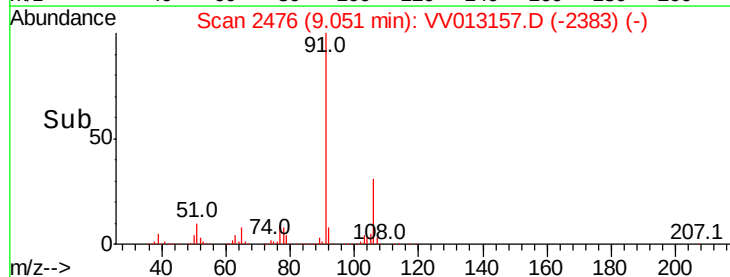
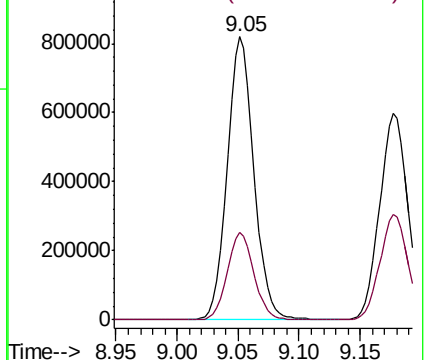
91 100

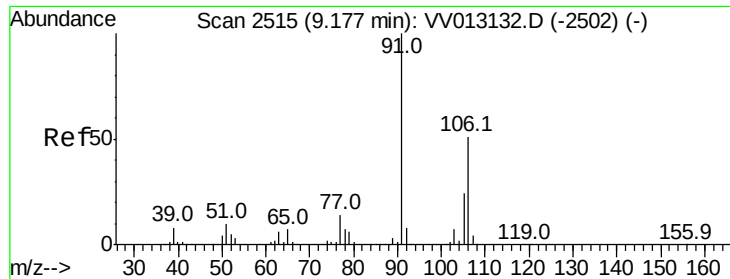
106 30.8 21.8 40.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 54.600 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

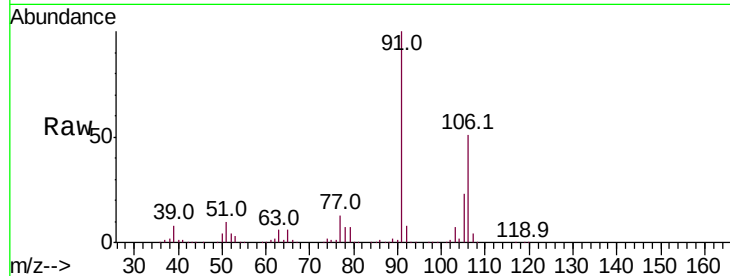
Instrument :
MSVOA_V
ClientSampleId :
VSTD05075

Tot Ion:106 Resp: 487118

Ion Ratio Lower Upper

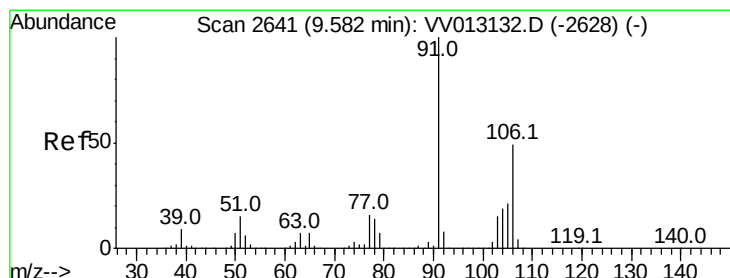
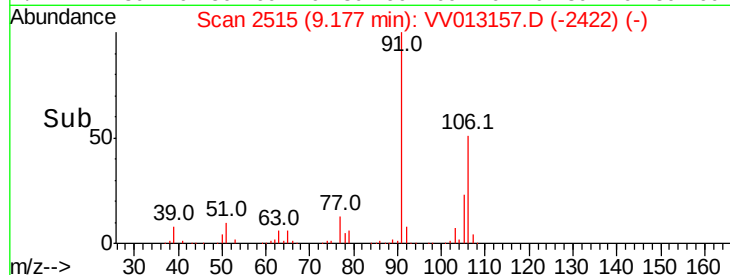
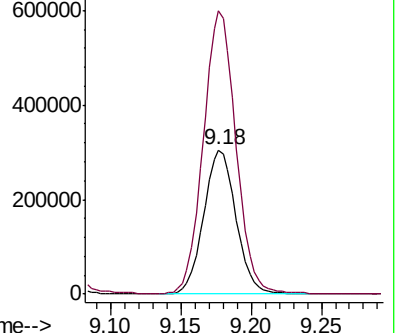
106 100

91 196.2 137.8 255.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 51.865 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV013157.D

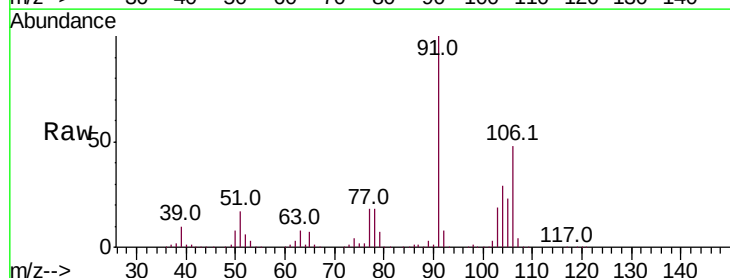
Acq: 15 Oct 2019 09:55

Tgt Ion:106 Resp: 463590

Ion Ratio Lower Upper

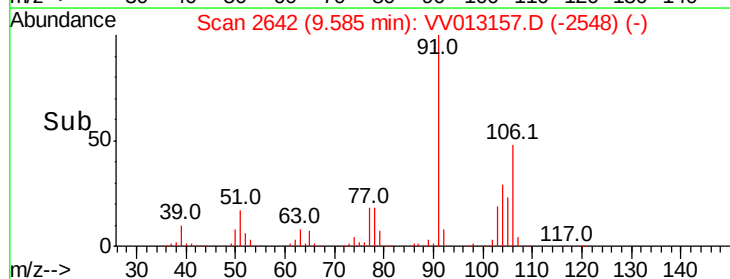
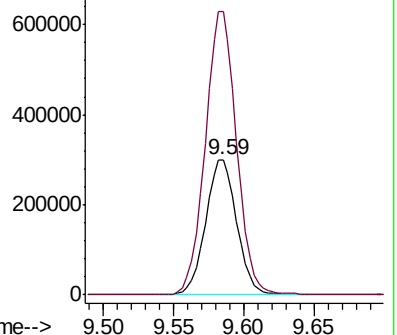
106 100

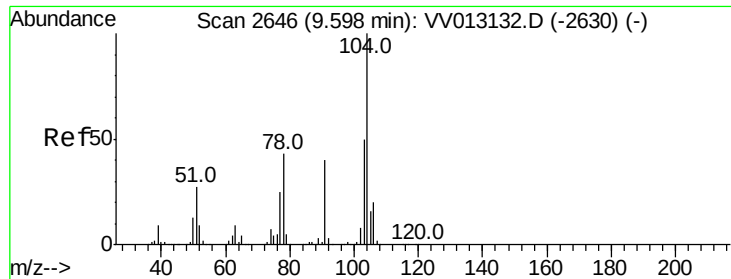
91 209.2 147.6 274.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#55

Stvrene

Concen: 55.783 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. 0.00 min

Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

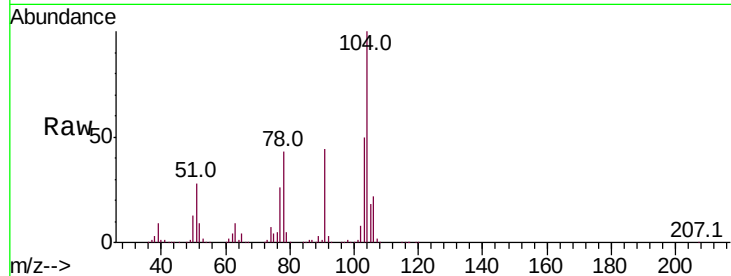
Instrument :
MSVOA_V
ClientSampleId :
VSTD05075

Tot Ion:104 Resp: 818832

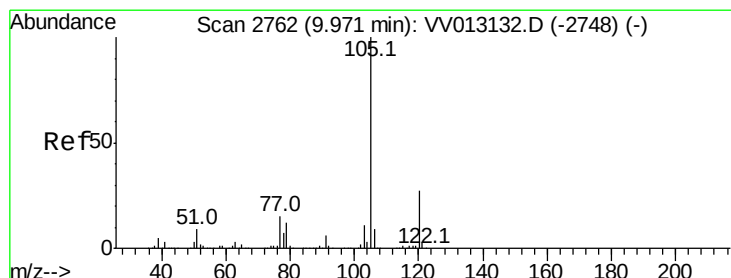
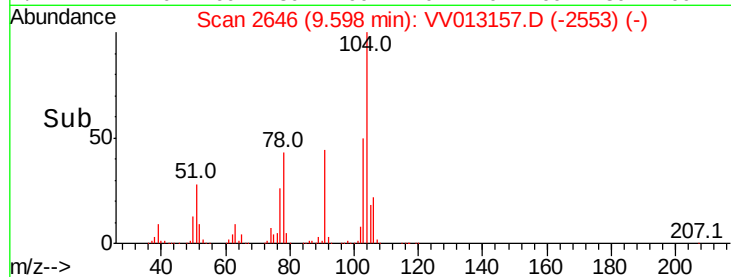
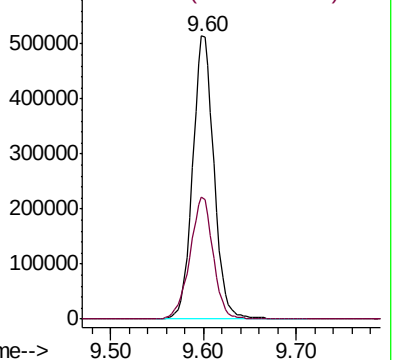
Ion Ratio Lower Upper

104 100

78 43.3 29.1 54.1



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



#56

Isopropylbenzene

Concen: 53.260 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

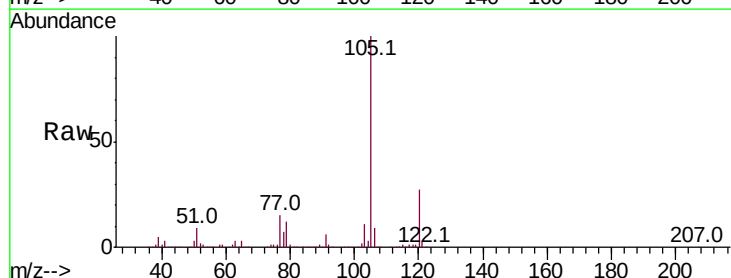
Tgt Ion:105 Resp: 1222409

Ion Ratio Lower Upper

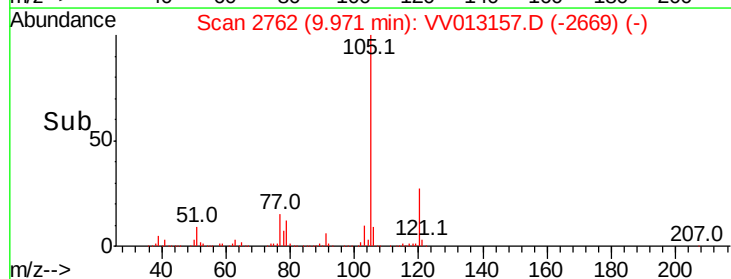
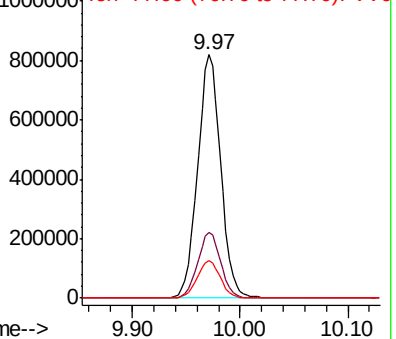
105 100

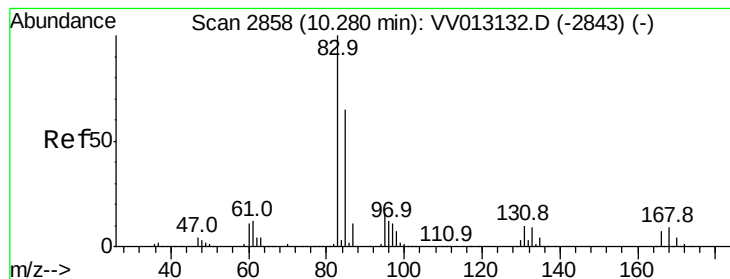
120 27.0 21.4 32.2

77 15.4 12.1 18.1



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): VV0





#58

1,1,2,2-Tetrachloroethane

Concen: 48.643 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

Instrument :

MSVOA_V

ClientSampleId :

VSTD05075

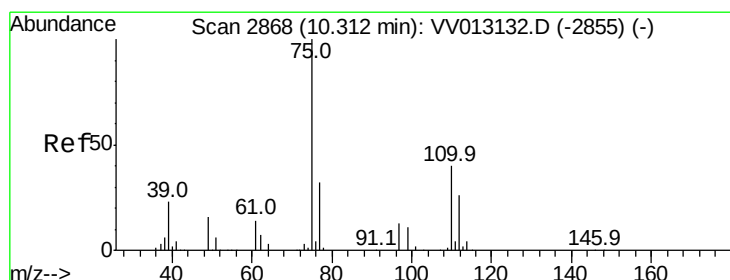
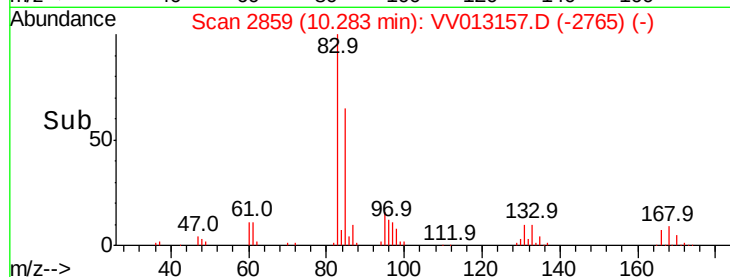
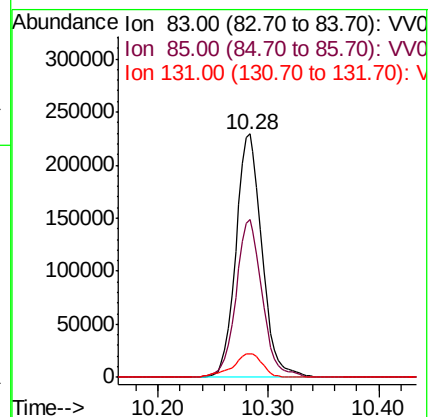
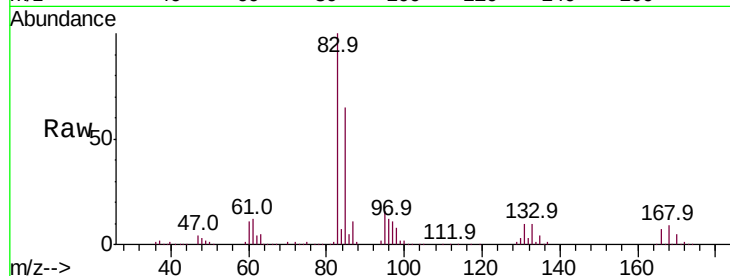
Tot Ion: 83 Resp: 374903

Ion Ratio Lower Upper

83 100

85 64.9 44.3 82.3

131 9.9 8.1 12.1



#59

1,2,3-Trichloropropane

Concen: 50.320 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV013157.D

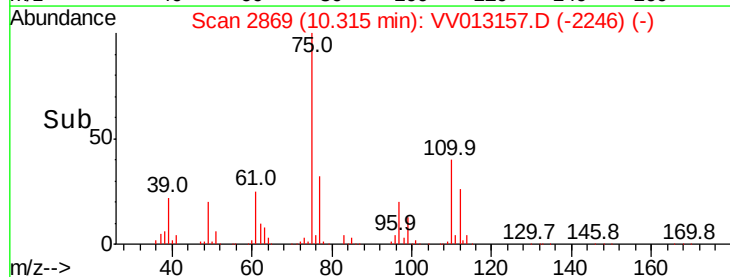
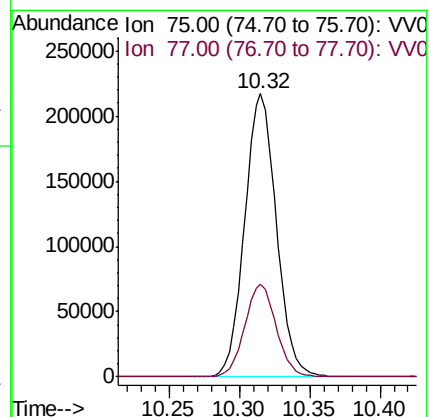
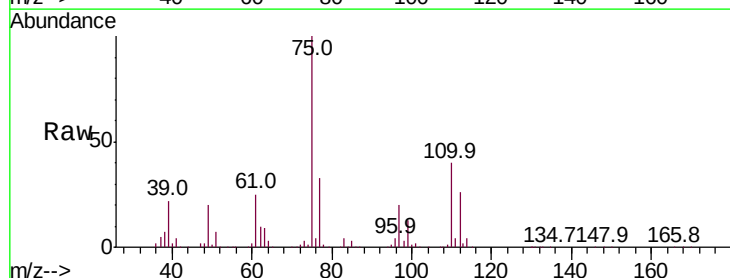
Acq: 15 Oct 2019 09:55

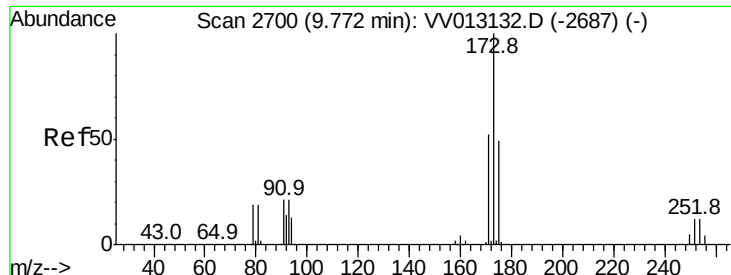
Tgt Ion: 75 Resp: 342088

Ion Ratio Lower Upper

75 100

77 32.5 25.7 38.5





#61

Bromoform

Concen: 47.820 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

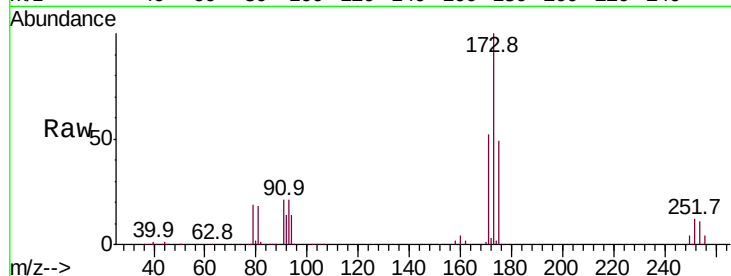
Lab File: VV013157.D

Acq: 15 Oct 2019 09:55

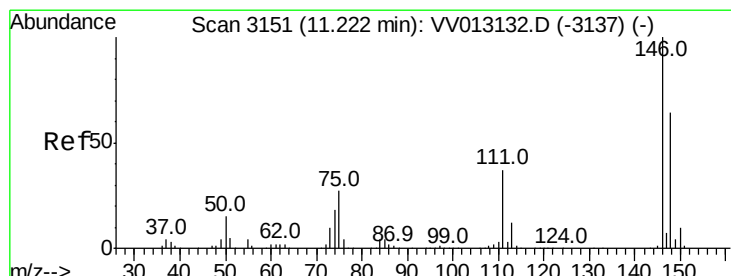
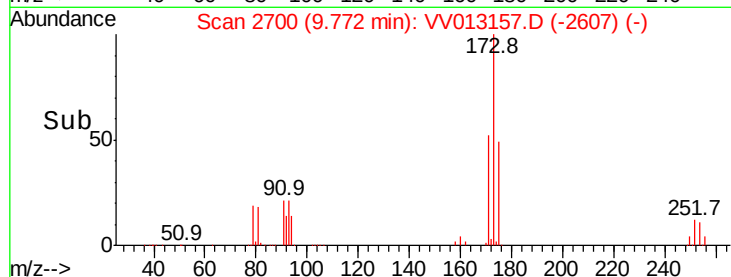
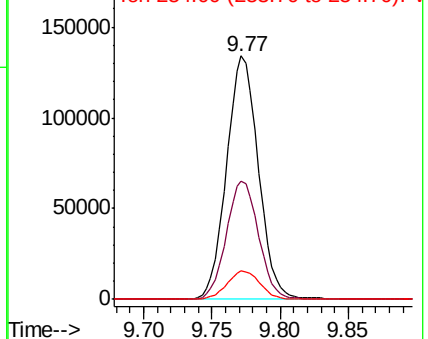
Instrument :
MSVOA_V
ClientSampleId :
VSTD05075

Tot Ion:173 Resp: 217633

Ion	Ratio	Lower	Upper
173	100		
175	49.2	38.8	58.2
254	11.9	9.6	14.4



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#62

1,3-Dichlorobenzene

Concen: 49.781 ug/L

RT: 11.22 min Scan# 3151

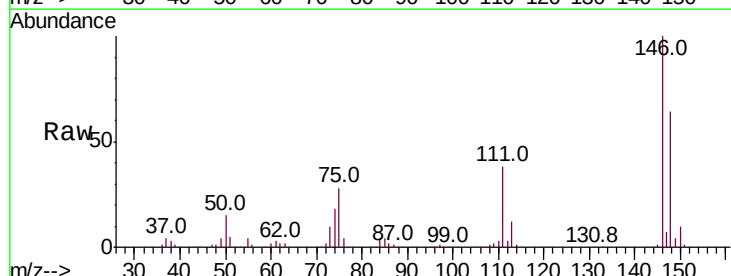
Delta R.T. 0.00 min

Lab File: VV013157.D

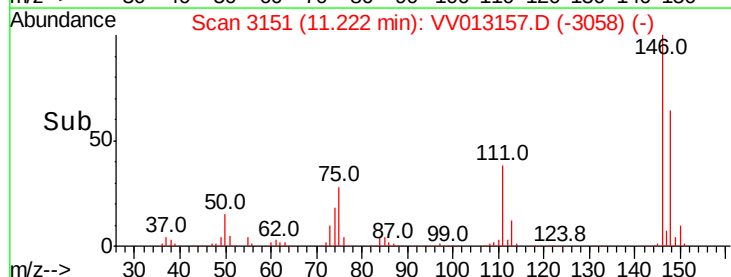
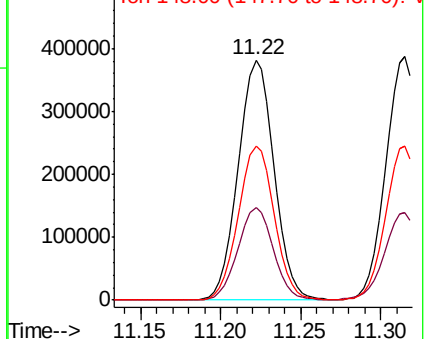
Acq: 15 Oct 2019 09:55

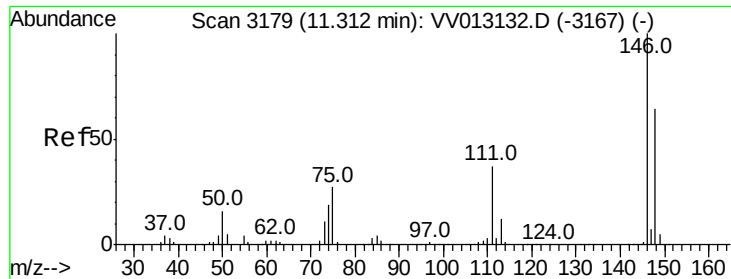
Tgt Ion:146 Resp: 582238

Ion	Ratio	Lower	Upper
146	100		
111	38.4	26.6	49.4
148	64.1	44.6	82.8



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

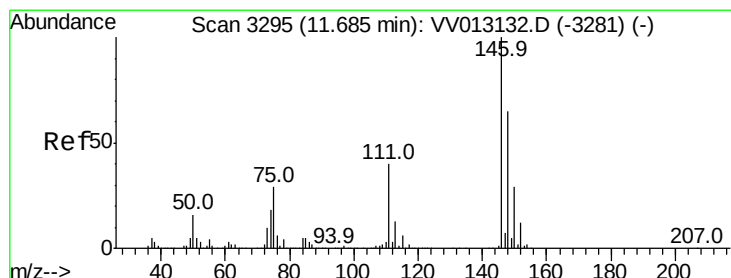
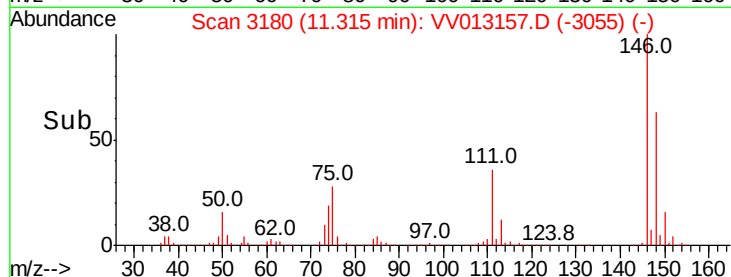
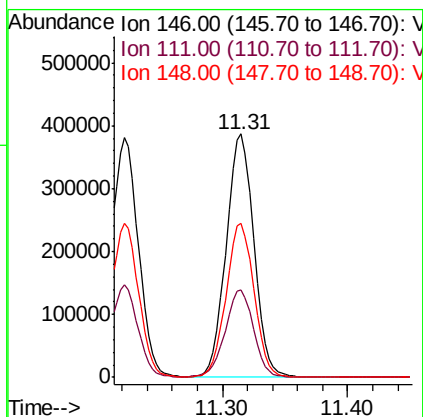
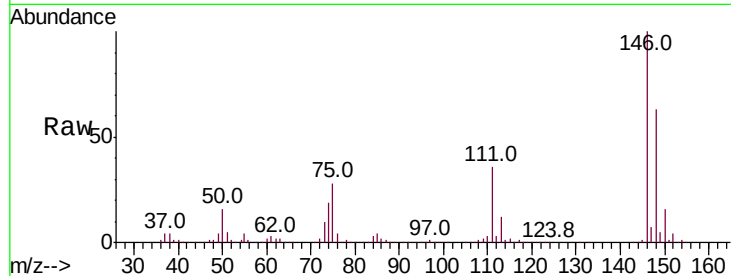




#63
1,4-Dichlorobenzene
Concen: 50.541 ug/L
RT: 11.31 min Scan# 3180
Delta R.T. 0.00 min
Lab File: VV013157.D
Acq: 15 Oct 2019 09:55

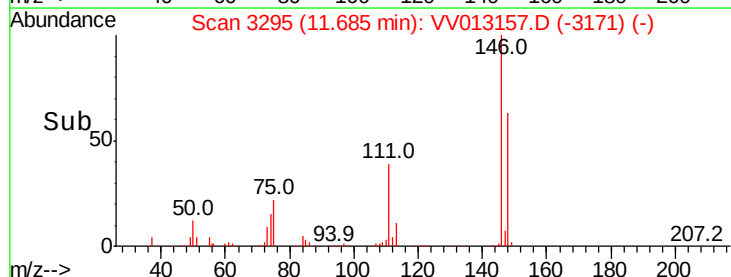
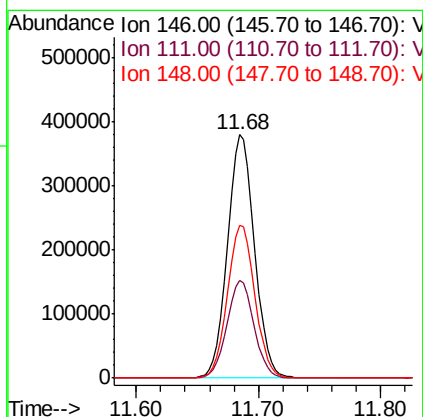
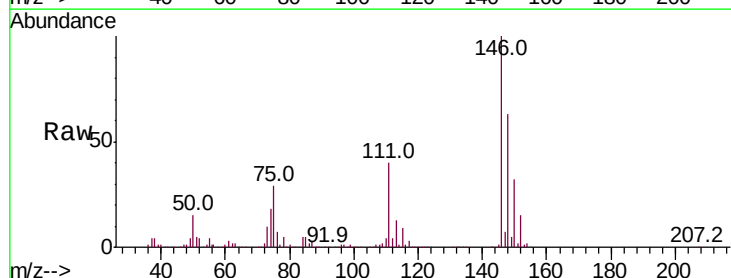
Instrument :
MSVOA_V
ClientSampleId :
VSTD05075

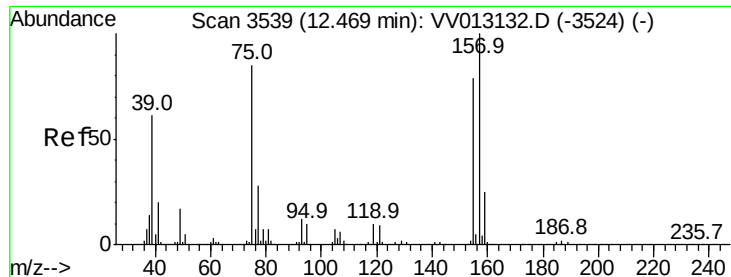
Tot Ion:146 Resp: 593596
Ion Ratio Lower Upper
146 100
111 35.9 25.4 47.2
148 63.3 44.2 82.2



#65
1,2-Dichlorobenzene
Concen: 49.645 ug/L
RT: 11.68 min Scan# 3295
Delta R.T. 0.00 min
Lab File: VV013157.D
Acq: 15 Oct 2019 09:55

Tgt Ion:146 Resp: 591087
Ion Ratio Lower Upper
146 100
111 40.1 32.2 48.2
148 62.7 50.6 76.0

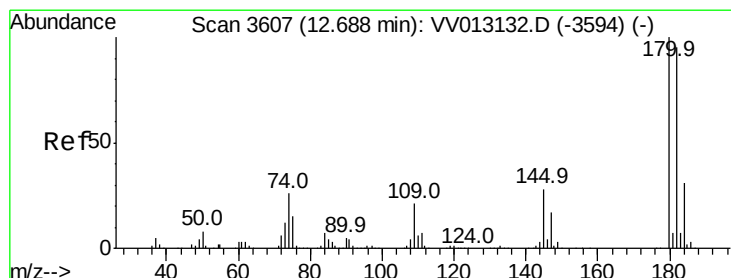
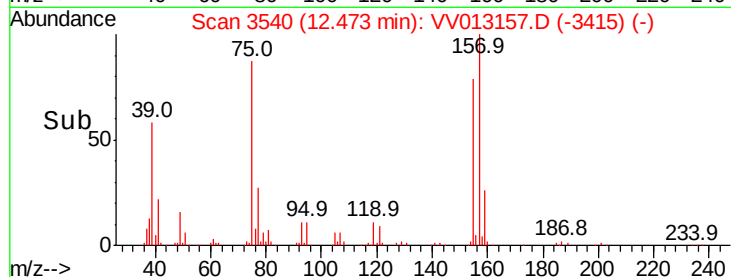
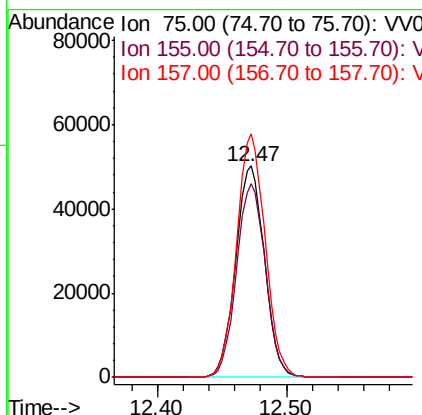
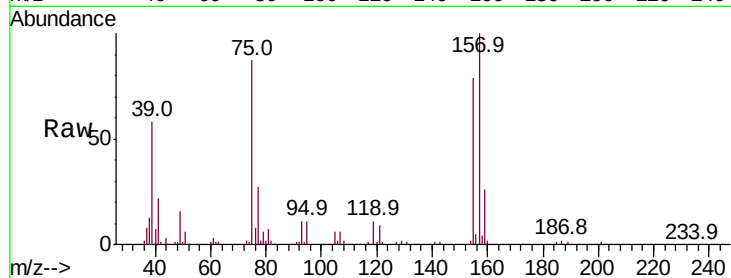




#66
 1,2-Dibromo-3-chloropropane
 Concen: 44.964 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. 0.00 min
 Lab File: VV013157.D
 Acq: 15 Oct 2019 09:55

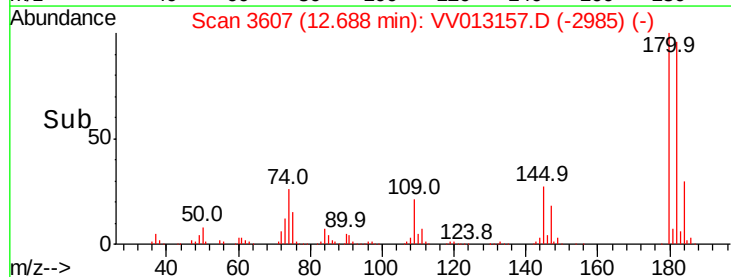
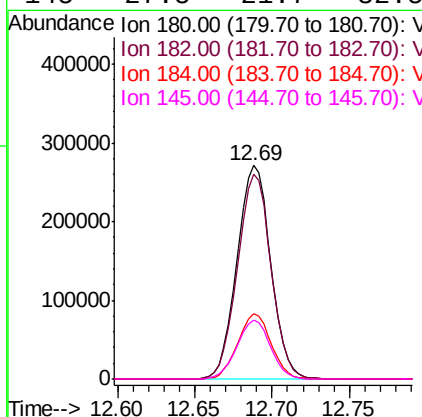
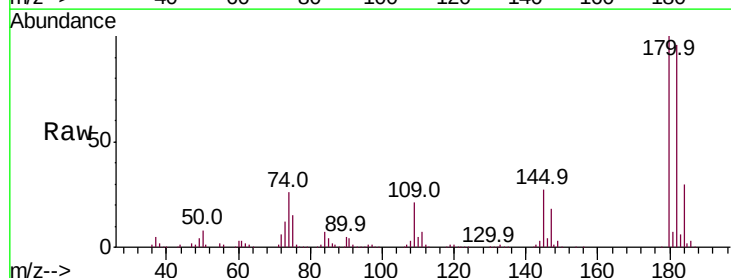
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05075

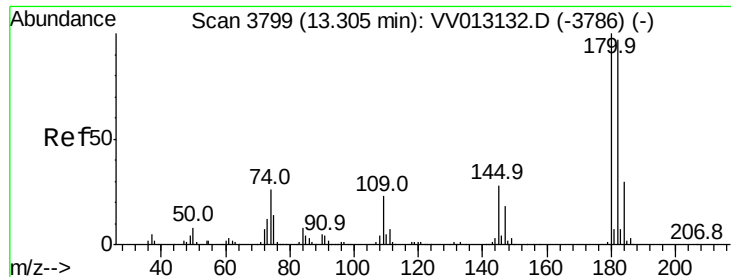
Tot Ion: 75 Resp: 77865
 Ion Ratio Lower Upper
 75 100
 155 91.5 74.6 111.8
 157 115.2 94.2 141.4



#67
 1,3,5-Trichlorobenzene
 Concen: 49.159 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV013157.D
 Acq: 15 Oct 2019 09:55

Tgt Ion: 180 Resp: 410040
 Ion Ratio Lower Upper
 180 100
 182 95.7 76.7 115.1
 184 30.3 24.3 36.5
 145 27.5 21.7 32.5

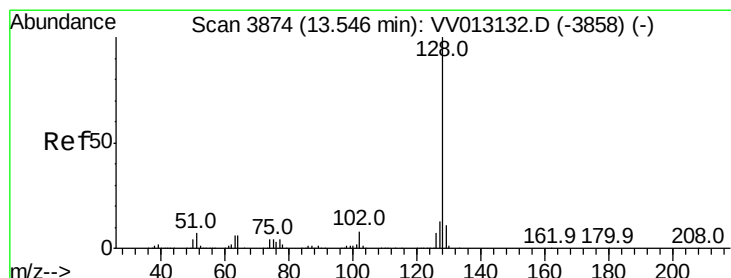
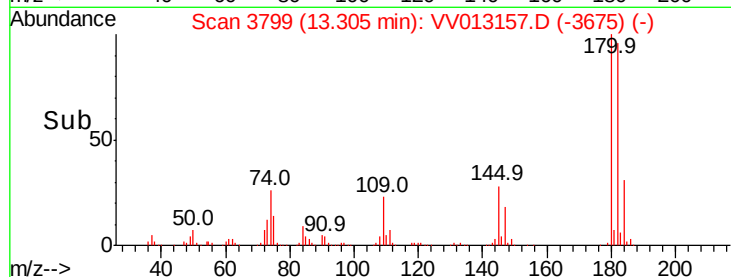
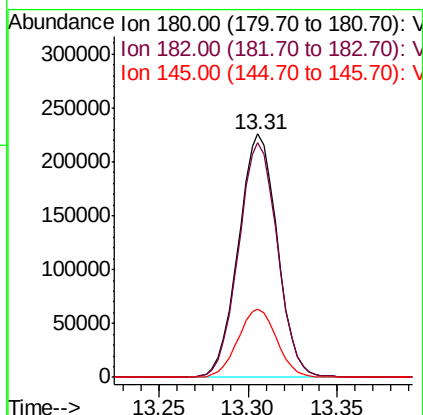
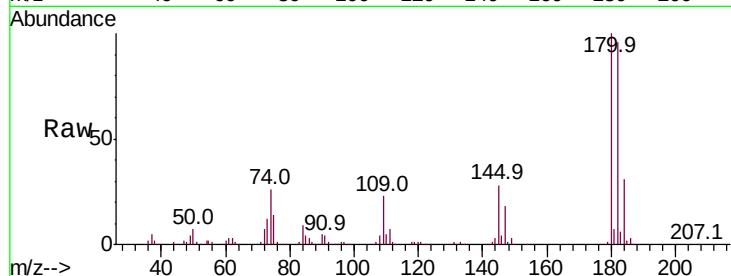




#68
 1,2,4-trichlorobenzene
 Concen: 47.825 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV013157.D
 Acq: 15 Oct 2019 09:55

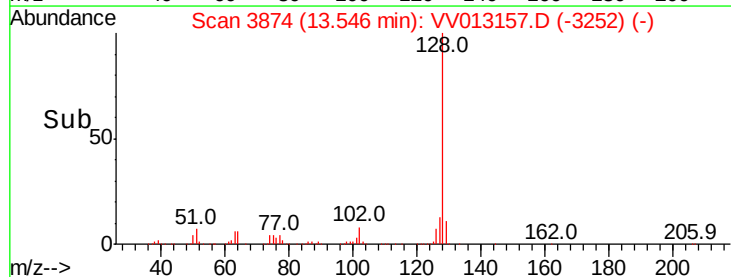
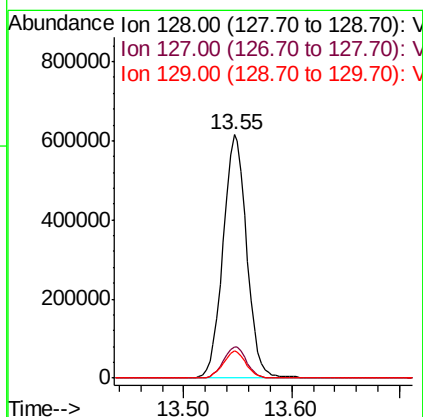
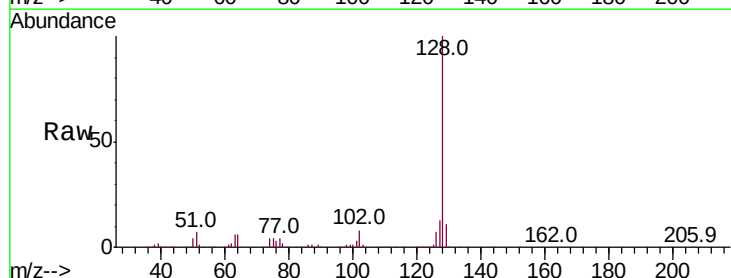
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05075

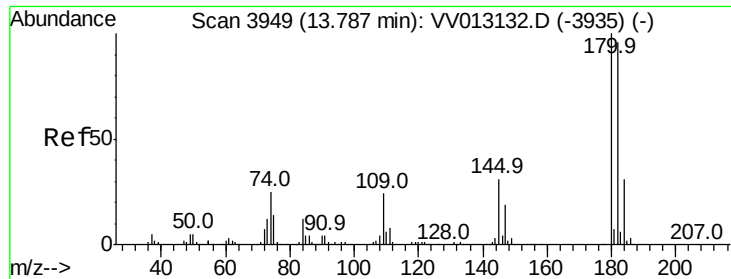
Tot Ion:180 Resp: 342146
 Ion Ratio Lower Upper
 180 100
 182 96.7 77.4 116.0
 145 28.2 22.7 34.1



#69
 Naphthalene
 Concen: 47.672 ug/L
 RT: 13.55 min Scan# 3874
 Delta R.T. 0.00 min
 Lab File: VV013157.D
 Acq: 15 Oct 2019 09:55

Tgt Ion:128 Resp: 939578
 Ion Ratio Lower Upper
 128 100
 127 12.8 10.2 15.4
 129 10.9 8.6 13.0

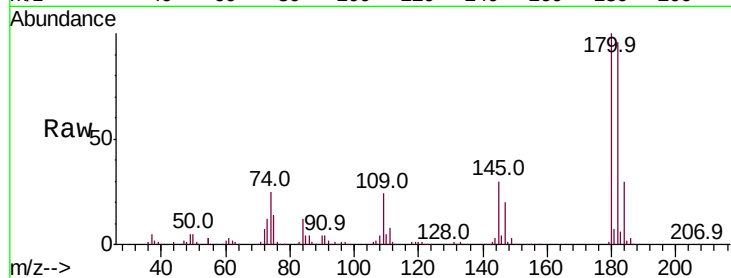




#70
 1,2,3-Trichlorobenzene
 Concen: 49.830 ug/L
 RT: 13.79 min Scan# 3949
 Delta R.T. 0.00 min
 Lab File: VV013157.D
 Acq: 15 Oct 2019 09:55

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05075

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.9	115.3
145	30.1	23.8	35.8



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

