

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101419\
 Data File : VV013155.D
 Acq On : 14 Oct 2019 20:54
 Operator : SY/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 15 05:11:51 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	742551	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	712439	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	356515	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	192937	41.11	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	82.22%
7) Chloroethane-d5	1.58	69	173332	45.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.10%
11) 1,1-Dichloroethene-d2	2.13	63	349666	39.50	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	79.00%
21) 2-Butanone-d5	3.97	46	375940	106.52	ug/L	0.05
Spiked Amount	100.000	Range	40 - 130	Recovery	=	106.52%
24) Chloroform-d	4.40	84	451418	49.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.92%
26) 1,2-Dichloroethane-d4	5.08	65	283585	50.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.82%
32) Benzene-d6	5.10	84	919589	48.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.76%
36) 1,2-Dichloropropane-d6	6.12	67	290204	48.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.46%
41) Toluene-d8	7.36	98	835421	49.11	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.22%
43) trans-1,3-Dichloropropene-	7.66	79	125299	46.45	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.90%
47) 2-Hexanone-d5	8.14	63	244278	103.09	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.09%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	384719	50.06	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.12%
64) 1,2-Dichlorobenzene-d4	11.67	152	331313	47.43	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.86%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	293278	50.917	ug/L 100
3) Chloromethane	1.25	50	328051	50.051	ug/L 100
5) Vinyl chloride	1.32	62	315650	50.130	ug/L 100
6) Bromomethane	1.53	94	196127	60.876	ug/L 98
8) Chloroethane	1.60	64	187430	50.044	ug/L 99
9) Trichlorofluoromethane	1.77	101	404843	50.108	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	215120	45.202	ug/L 94
12) 1,1-Dichloroethene	2.14	96	208452	45.266	ug/L 94
14) Carbon disulfide	2.31	76	657291	49.217	ug/L 100
15) Methyl Acetate	2.47	43	303632	52.874	ug/L 100
16) Methylene chloride	2.53	84	286533	52.298	ug/L 98
17) trans-1,2-Dichloroethene	2.79	96	255643	51.172	ug/L 97
18) Methyl tert-butyl Ether	2.81	73	795436	52.751	ug/L 99
19) 1,1-Dichloroethane	3.23	63	493157	52.332	ug/L 100
20) cis-1,2-Dichloroethene	3.96	96	285202	50.442	ug/L 99
22) 2-Butanone	4.05	43	404713	98.122	ug/L 99
23) Bromochloromethane	4.30	128	150770	52.503	ug/L 99

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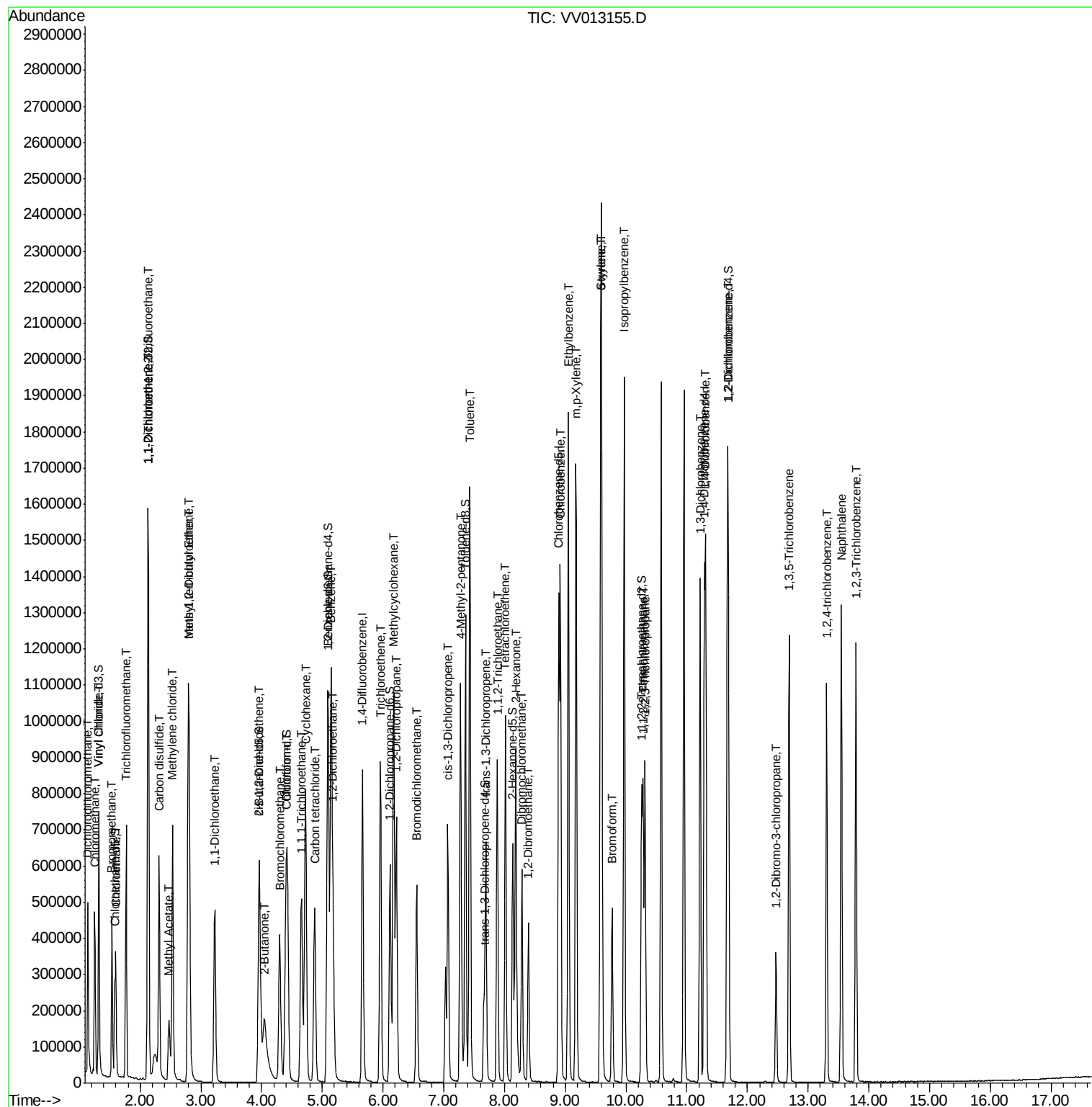
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	4.42	83	501692	52.837	ug/L	98
27) 1,2-Dichloroethane	5.18	62	383702	52.718	ug/L	99
29) Cyclohexane	4.72	56	436609	51.171	ug/L	100
30) 1,1,1-Trichloroethane	4.66	97	404180	51.128	ug/L	99
31) Carbon tetrachloride	4.87	117	359819	51.224	ug/L	99
33) Benzene	5.14	78	1128522	52.007	ug/L	100
34) Trichloroethene	5.96	95	296781	51.367	ug/L	99
35) Methylcyclohexane	6.17	83	448530	51.321	ug/L	99
37) 1,2-Dichloropropane	6.22	63	291836	51.938	ug/L	100
38) Bromodichloromethane	6.55	83	364443	50.974	ug/L	97
39) cis-1,3-Dichloropropene	7.07	75	417884	50.285	ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	810644	110.210	ug/L	99
42) Toluene	7.43	91	1185692	53.077	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	362760	50.356	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	278540	52.213	ug/L	97
46) Tetrachloroethene	8.02	164	234008	51.159	ug/L	97
48) 2-Hexanone	8.19	43	637214	112.029	ug/L	99
49) Dibromochloromethane	8.29	129	297230	51.123	ug/L	100
50) 1,2-Dibromoethane	8.40	107	288684	51.776	ug/L	98
51) Chlorobenzene	8.92	112	750440	51.226	ug/L	99
52) Ethylbenzene	9.05	91	1266232	53.066	ug/L	99
53) m,p-Xylene	9.18	106	486242	54.164	ug/L	99
54) o-xylene	9.59	106	471096	52.378	ug/L	99
55) Styrene	9.60	104	810781	54.892	ug/L	99
56) Isopropylbenzene	9.97	105	1233561	53.413	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	387775	50.001	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	357236	52.223	ug/L	99
61) Bromoform	9.77	173	216433	48.244	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	575762	49.940	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	577686	49.897	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	581309	49.530	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.47	75	82680	48.435	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	394581	47.990	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	340107	48.227	ug/L	99
69) Naphthalene	13.55	128	1010037	51.988	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	386547	51.241	ug/L	99

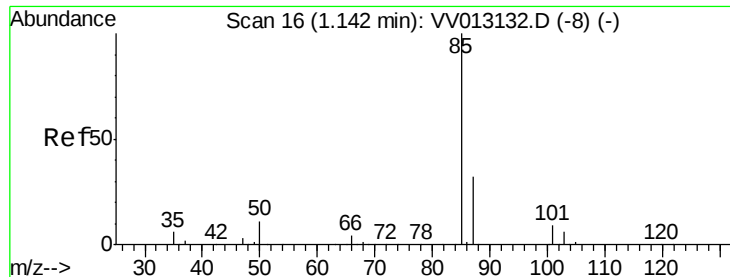
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 50.917 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

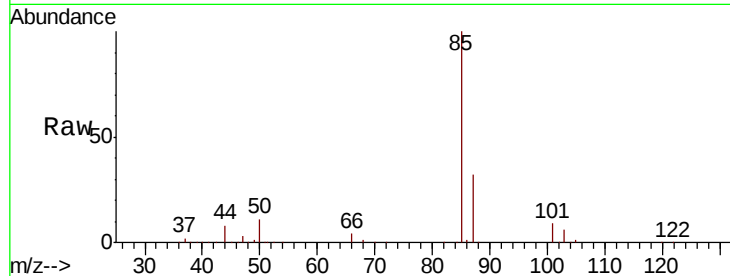
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 85 Resp: 293278

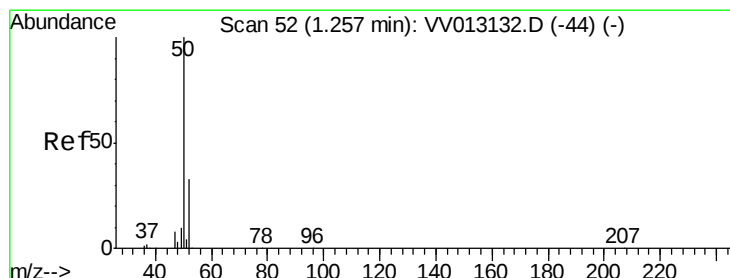
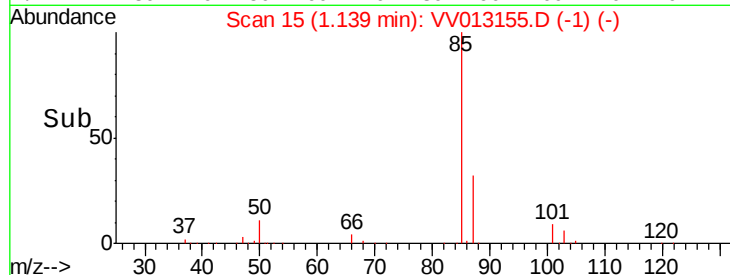
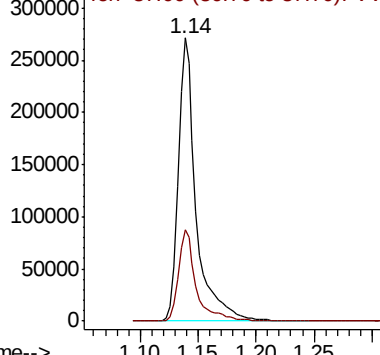
Ion Ratio Lower Upper

85 100

87 31.9 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV0
Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 50.051 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.01 min

Lab File: VV013155.D

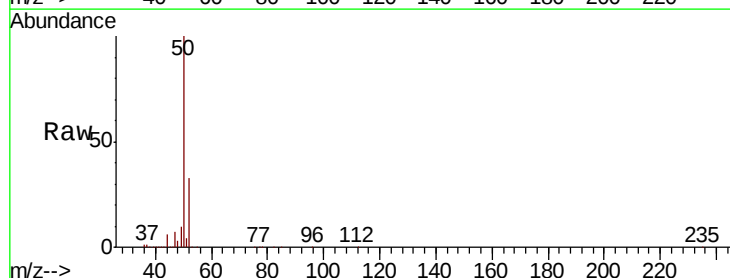
Acq: 14 Oct 2019 20:54

Tgt Ion: 50 Resp: 328051

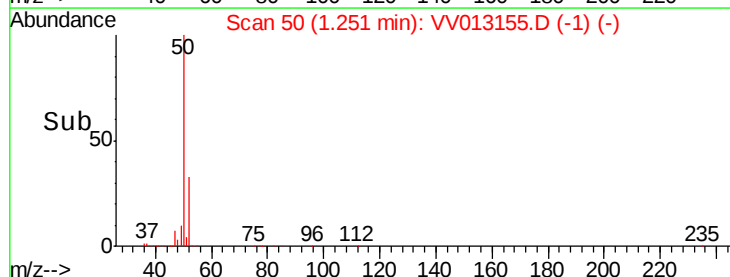
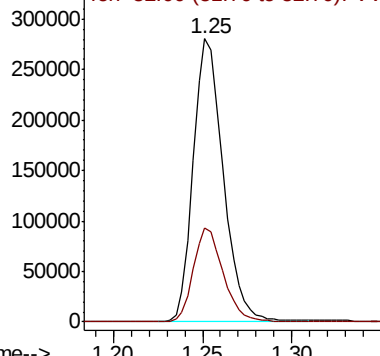
Ion Ratio Lower Upper

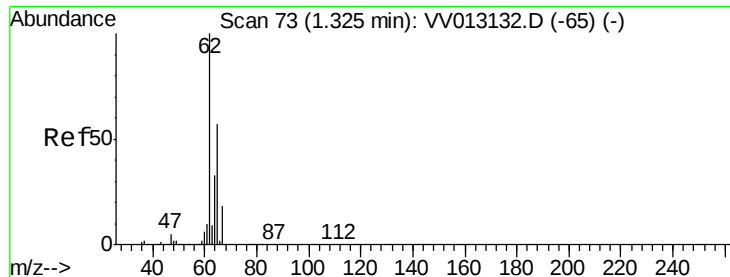
50 100

52 33.1 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV0
Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 50.130 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

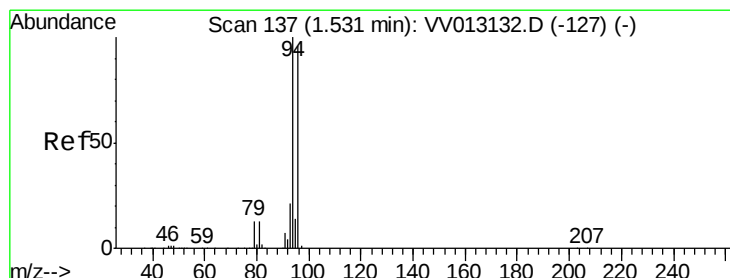
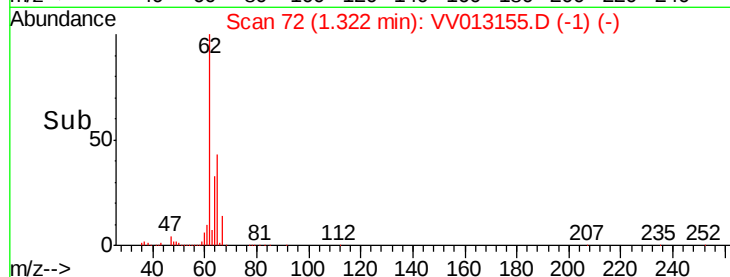
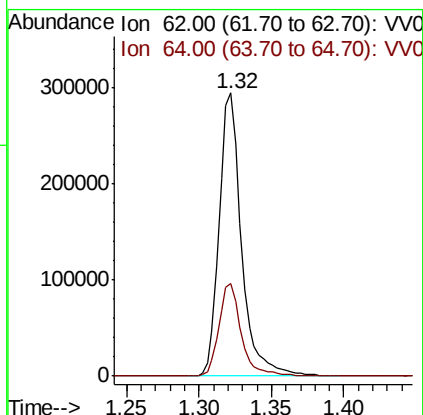
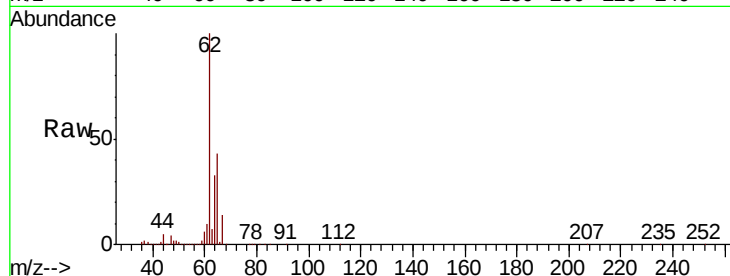
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 315650

Ion Ratio Lower Upper

62 100

64 32.7 22.9 42.5



#6

Bromomethane

Concen: 60.876 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV013155.D

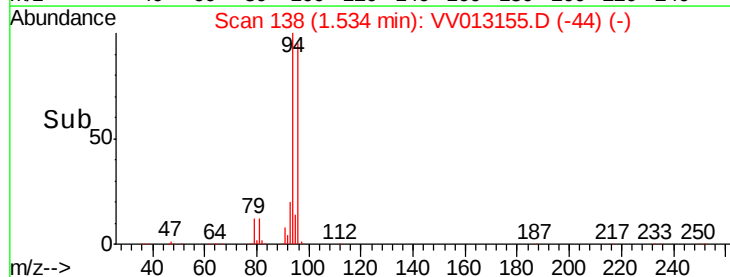
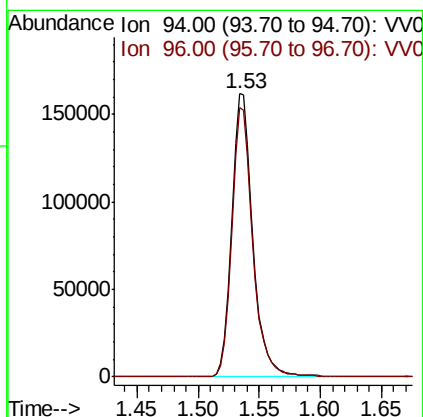
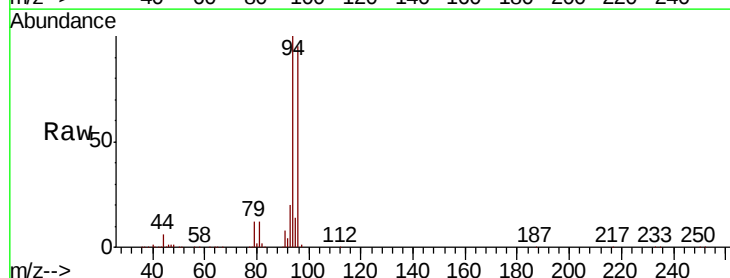
Acq: 14 Oct 2019 20:54

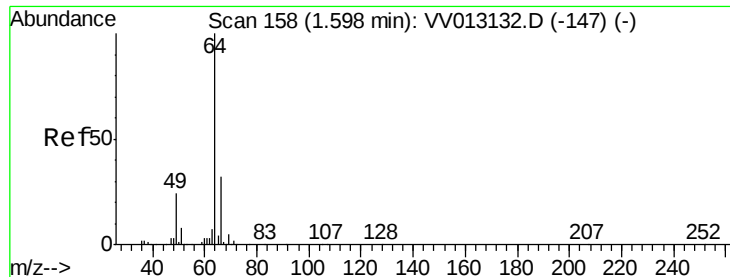
Tgt Ion: 94 Resp: 196127

Ion Ratio Lower Upper

94 100

96 95.0 68.0 126.2





#8

Chloroethane

Concen: 50.044 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

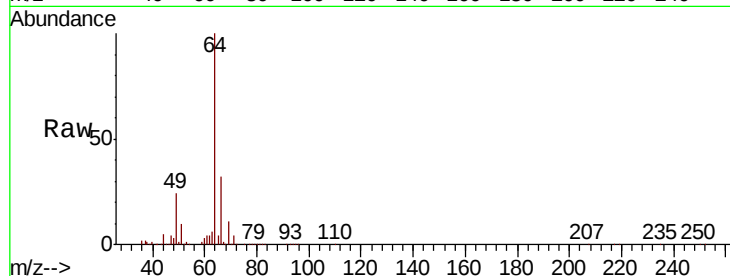
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 187430

Ion Ratio Lower Upper

64 100

66 32.3 23.0 42.8



Abundance Ion 64.00 (63.70 to 64.70): VV0

Ion 66.00 (65.70 to 66.70): VV0

1.60

150000

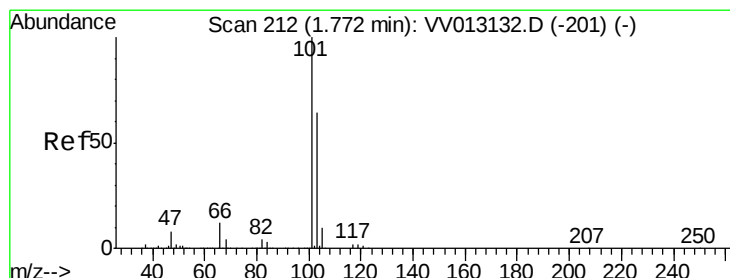
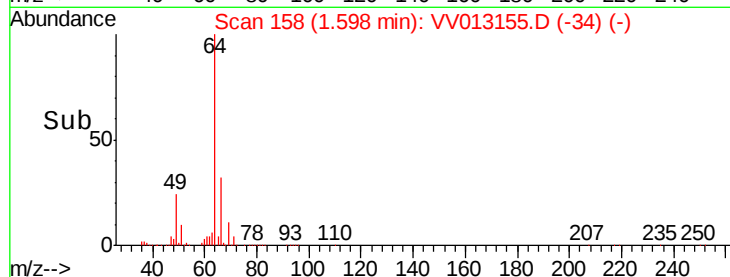
100000

50000

0

Time-->

1.55 1.60 1.65 1.70



#9

Trichlorofluoromethane

Concen: 50.108 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV013155.D

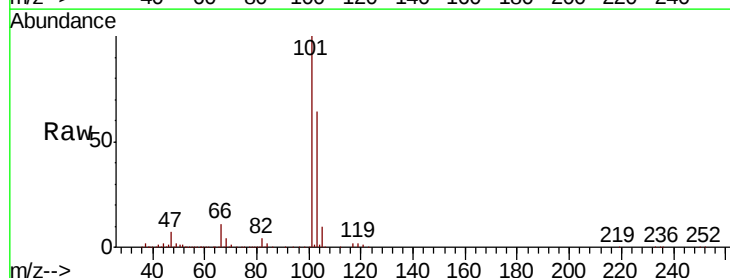
Acq: 14 Oct 2019 20:54

Tgt Ion:101 Resp: 404843

Ion Ratio Lower Upper

101 100

103 64.2 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1.77

300000

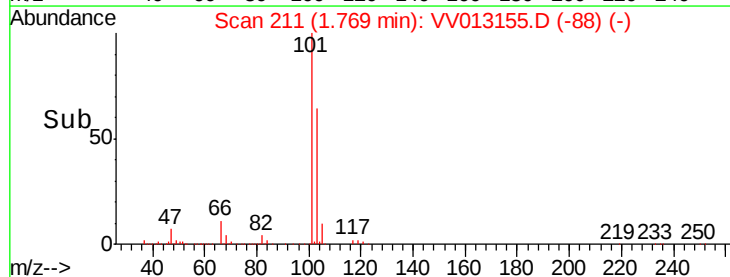
200000

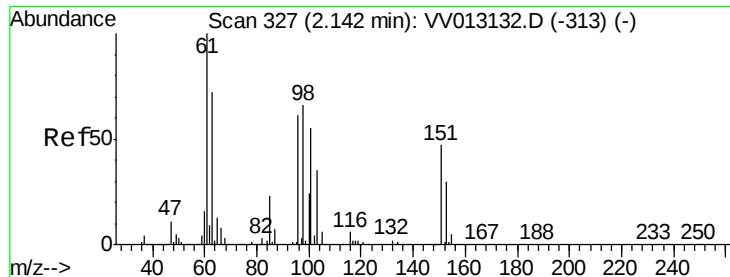
100000

0

Time-->

1.70 1.75 1.80 1.85





#10

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

Concen: 45.202 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.01 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

Instrument :

MSVOA_V

ClientSampleId :

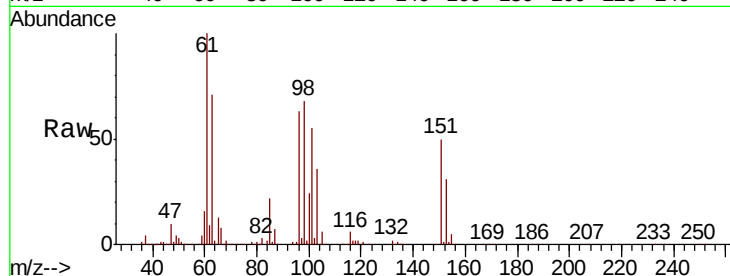
Tot Ion:101 Resp: 215120

Ion Ratio Lower Upper

101 100

85 40.1 32.9 49.3

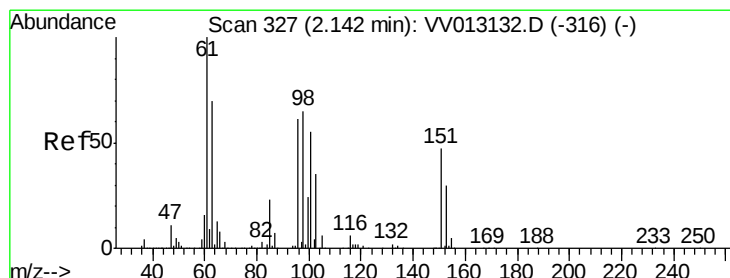
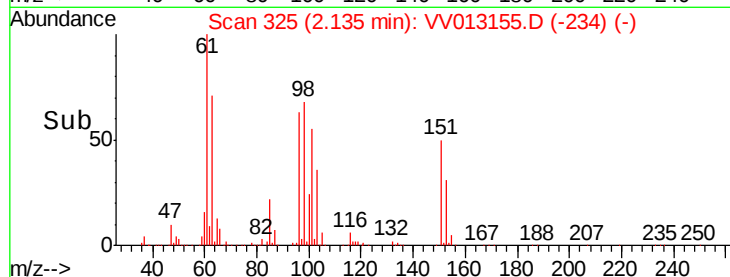
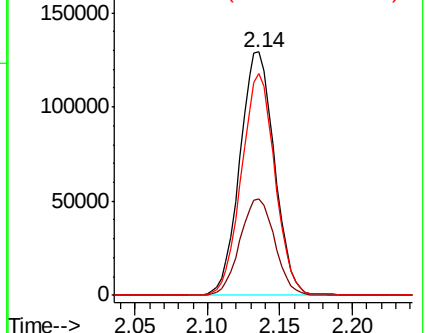
151 87.8 64.9 97.3



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

Ion 85.00 (84.70 to 85.70): VV013132.D (-313) (-)

Ion 151.00 (150.70 to 151.70): VV013132.D (-313) (-)



#12

1,1-Dichloroethene

Concen: 45.266 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.01 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

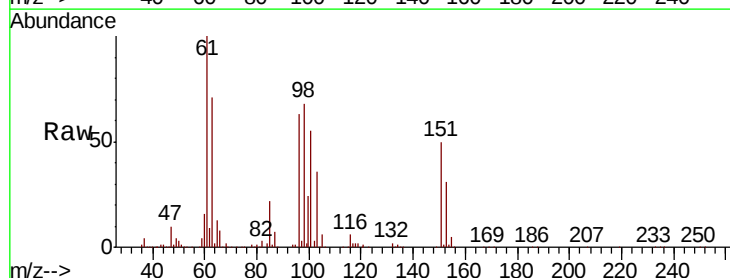
Tgt Ion: 96 Resp: 208452

Ion Ratio Lower Upper

96 100

61 158.2 115.7 214.9

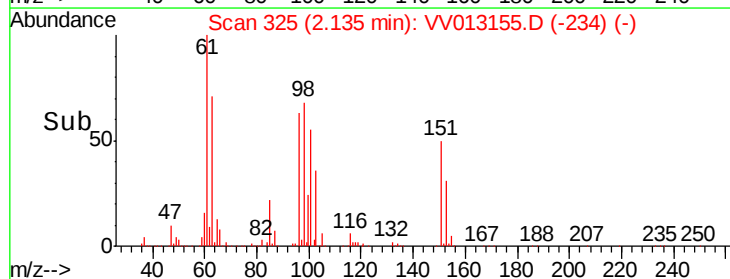
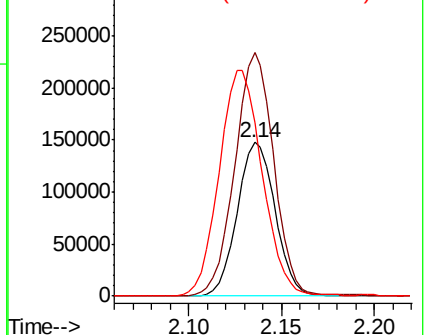
63 112.2 84.3 156.5

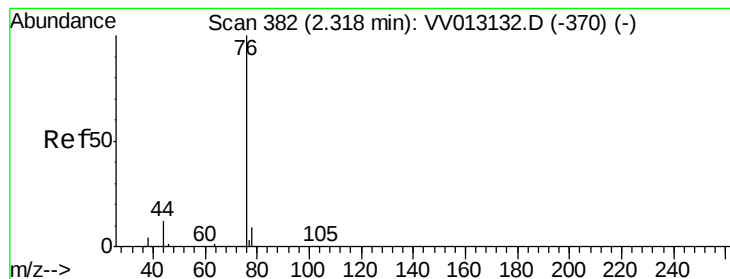


Abundance Ion 96.00 (95.70 to 96.70): VV013132.D (-316) (-)

Ion 61.00 (60.70 to 61.70): VV013132.D (-316) (-)

Ion 63.00 (62.70 to 63.70): VV013132.D (-316) (-)





#14

Carbon disulfide

Concen: 49.217 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.01 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

Instrument :

MSVOA_V

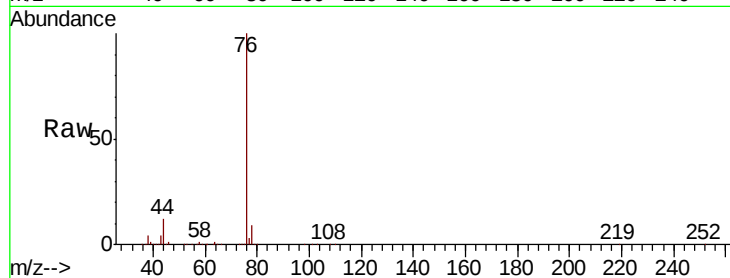
ClientSampled :

Tot Ion: 76 Resp: 657291

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.31

500000

400000

300000

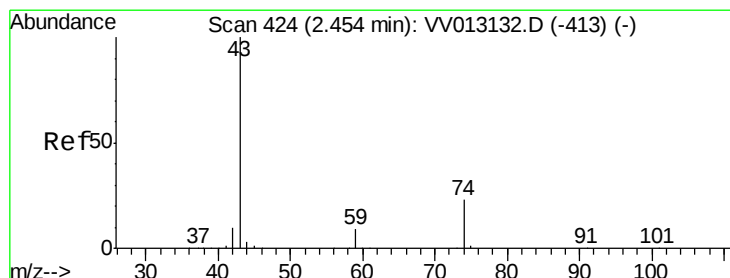
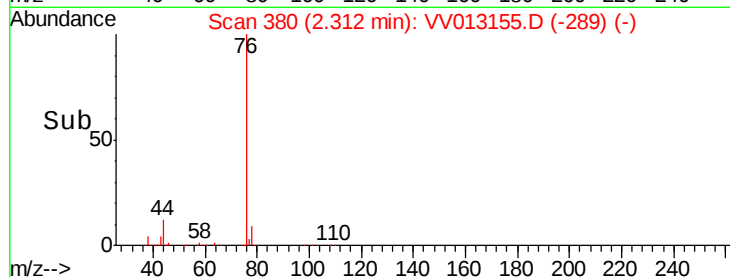
200000

100000

0

Time-->

2.25 2.30 2.35 2.40



#15

Methyl Acetate

Concen: 52.874 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.02 min

Lab File: VV013155.D

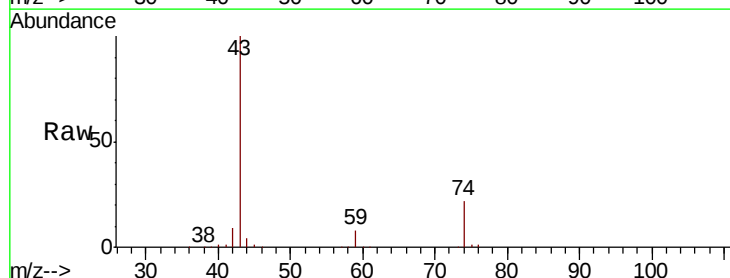
Acq: 14 Oct 2019 20:54

Tgt Ion: 43 Resp: 303632

Ion Ratio Lower Upper

43 100

74 22.9 18.4 27.6



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0

2.47

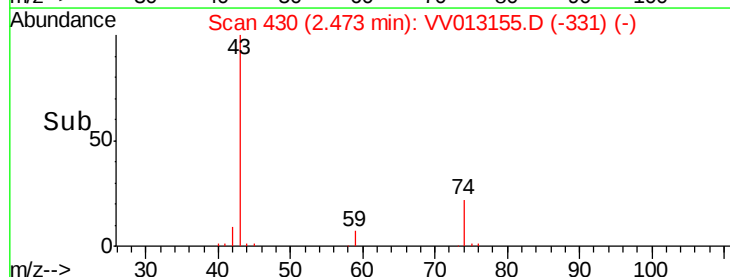
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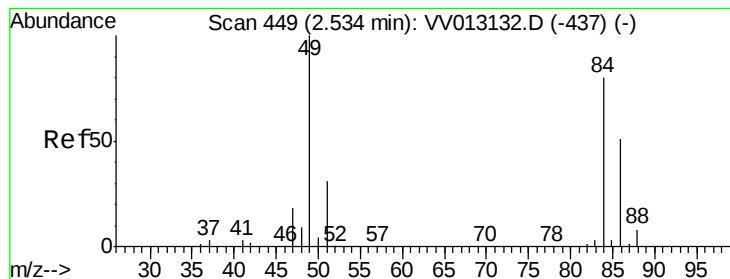
50000

0

Time-->

2.40 2.50 2.60 2.70





#16

Methylene chloride

Concen: 52.298 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

Instrument :

MSVOA_V

ClientSampled :

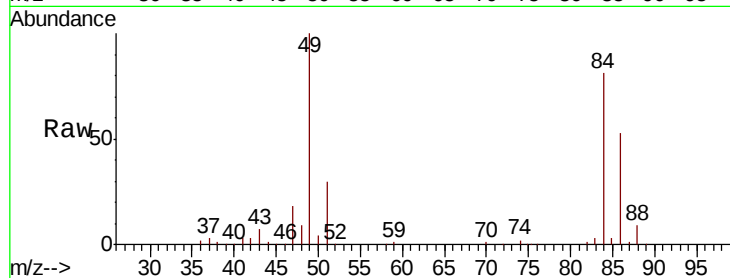
Tot Ion: 84 Resp: 286533

Ion Ratio Lower Upper

84 100

86 64.6 45.1 83.9

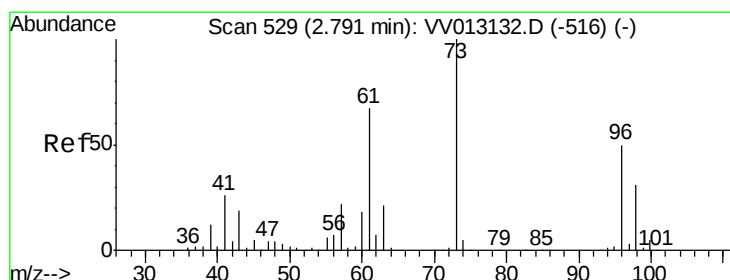
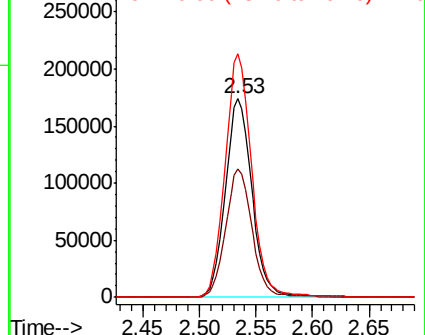
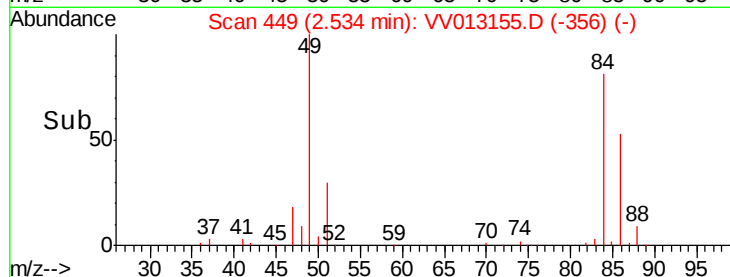
49 122.8 87.8 163.0



Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0



#17

trans-1,2-Dichloroethene

Concen: 51.172 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

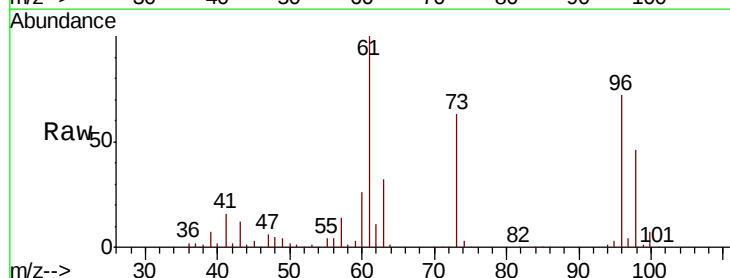
Tgt Ion: 96 Resp: 255643

Ion Ratio Lower Upper

96 100

61 138.3 93.9 174.5

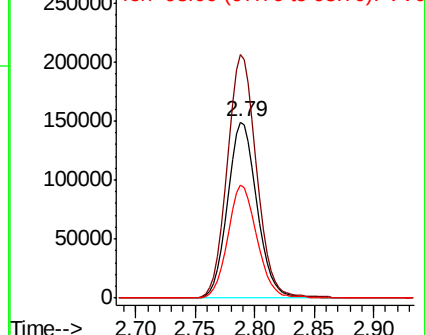
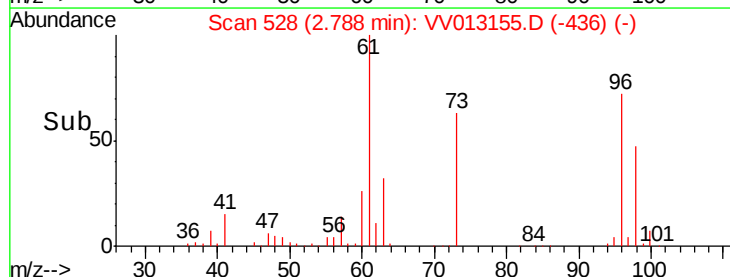
98 64.2 43.9 81.5

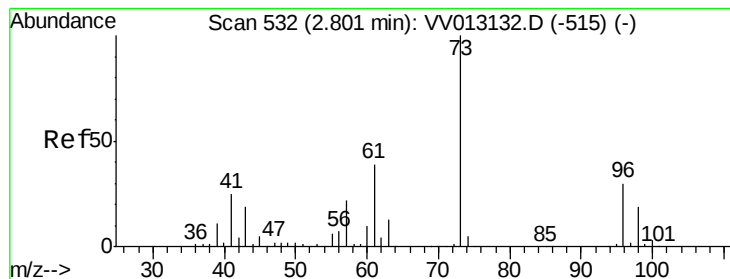


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



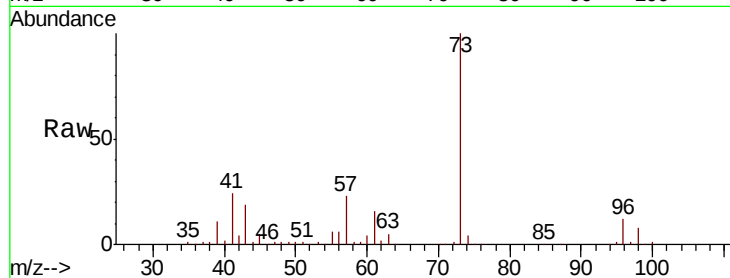


#18

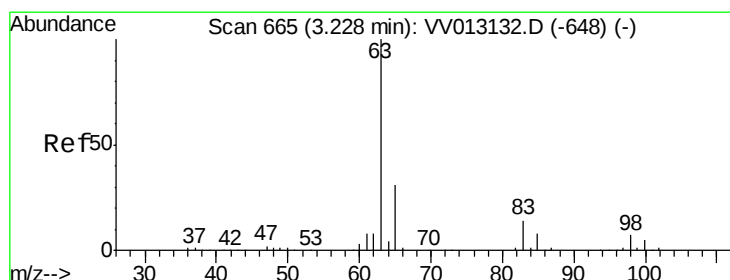
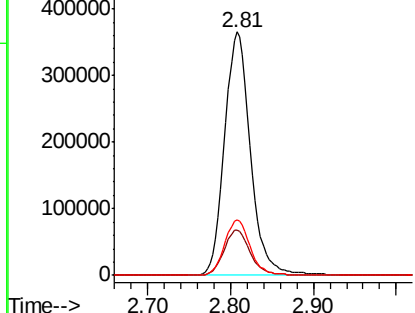
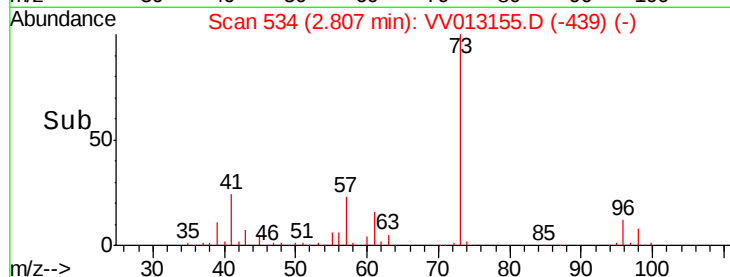
Methvl tert-butvl Ether
 Concen: 52.751 ug/L
 RT: 2.81 min Scan# 534
 Delta R.T. 0.01 min
 Lab File: VV013155.D
 Acq: 14 Oct 2019 20:54

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 73 Resp: 795436
 Ion Ratio Lower Upper
 73 100
 43 18.4 15.0 22.6
 57 22.5 18.2 27.2



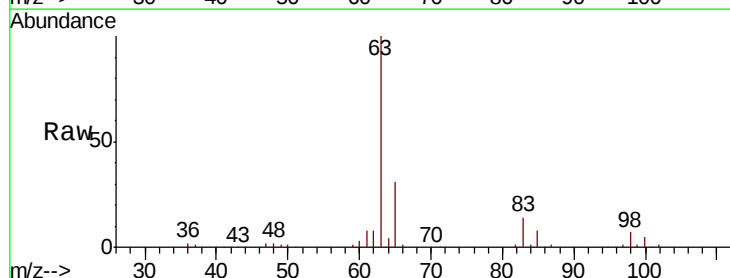
Abundance Ion 73.00 (72.70 to 73.70): VV0
 Ion 43.00 (42.70 to 43.70): VV0
 Ion 57.00 (56.70 to 57.70): VV0



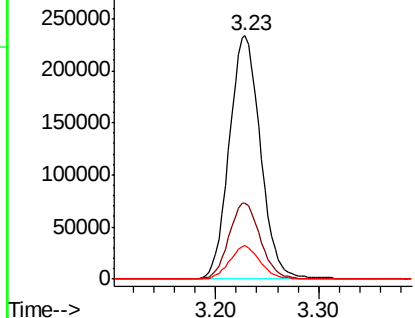
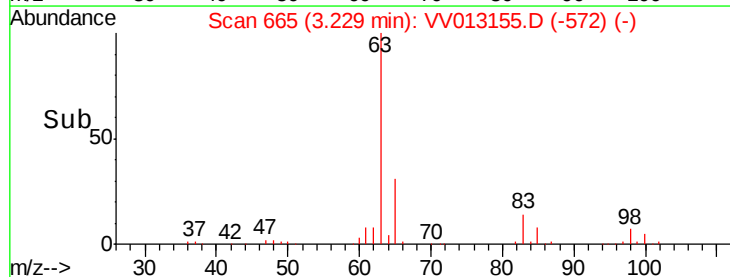
#19

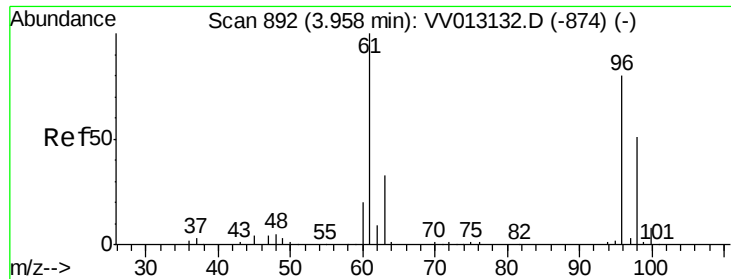
1,1-Dichloroethane
 Concen: 52.332 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV013155.D
 Acq: 14 Oct 2019 20:54

Tgt Ion: 63 Resp: 493157
 Ion Ratio Lower Upper
 63 100
 65 31.4 22.1 41.1
 83 13.8 9.5 17.7



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

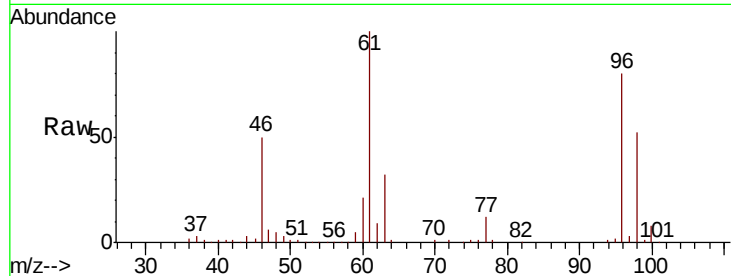




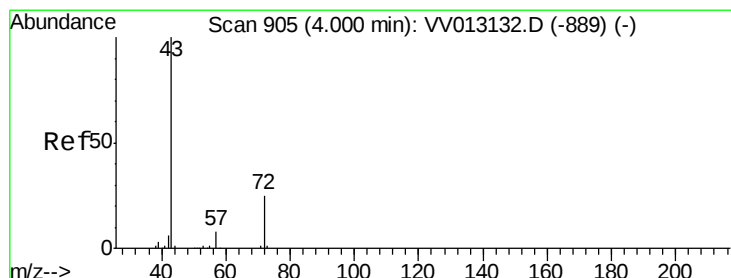
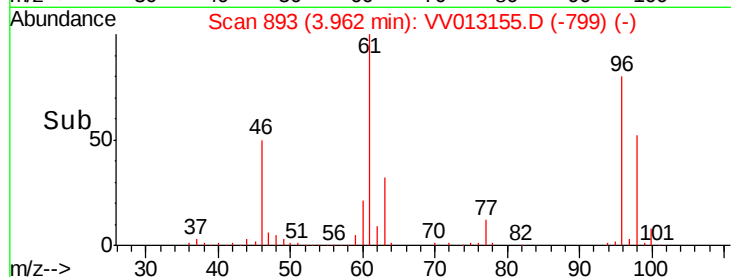
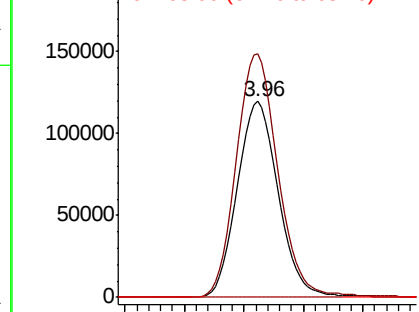
#20
 cis-1,2-Dichloroethene
 Concen: 50.442 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV013155.D
 Acq: 14 Oct 2019 20:54

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 96 Resp: 285202
 Ion Ratio Lower Upper
 96 100
 61 124.3 87.5 162.5
 68 0.0 0.0 0.0

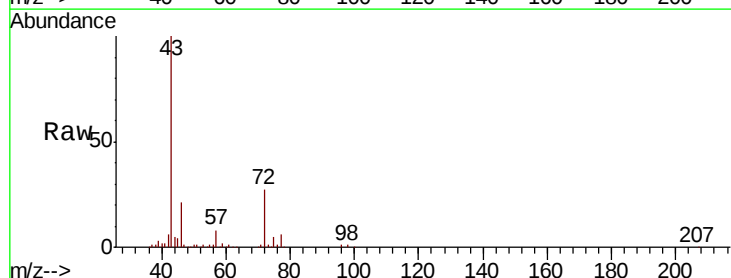


Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 68.00 (67.70 to 68.70): VV0

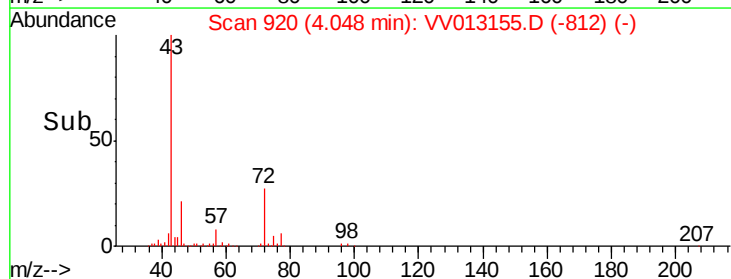
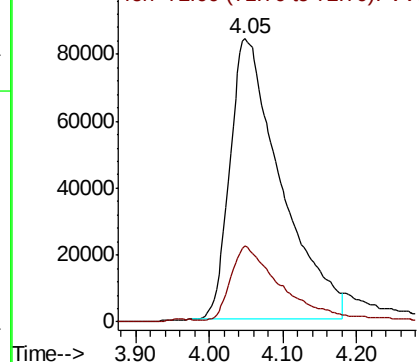


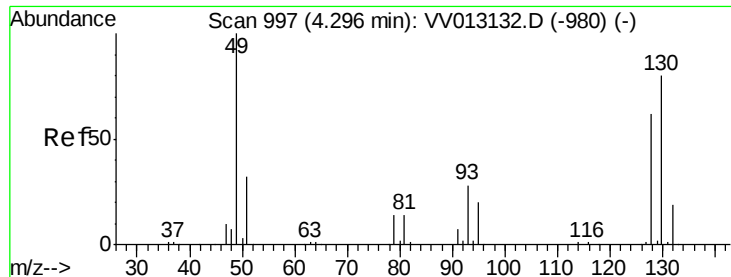
#22
 2-Butanone
 Concen: 98.122 ug/L
 RT: 4.05 min Scan# 920
 Delta R.T. 0.05 min
 Lab File: VV013155.D
 Acq: 14 Oct 2019 20:54

Tgt Ion: 43 Resp: 404713
 Ion Ratio Lower Upper
 43 100
 72 25.9 12.8 38.4



Abundance Ion 43.00 (42.70 to 43.70): VV0
 Ion 72.00 (71.70 to 72.70): VV0





#23

Bromochloromethane

Concen: 52.503 ug/L

RT: 4.30 min Scan# 998

Delta R.T. 0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:128 Resp: 150770

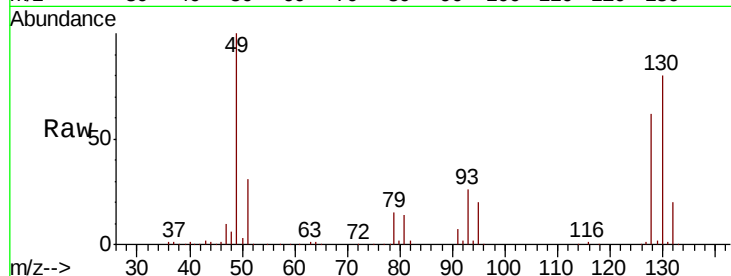
Ion Ratio Lower Upper

128 100

49 162.0 114.0 211.6

130 129.4 90.8 168.6

51 49.9 41.0 61.4

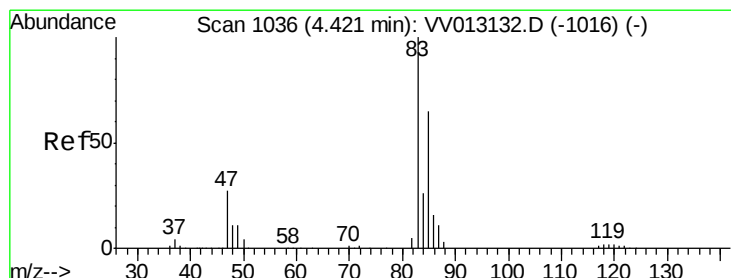
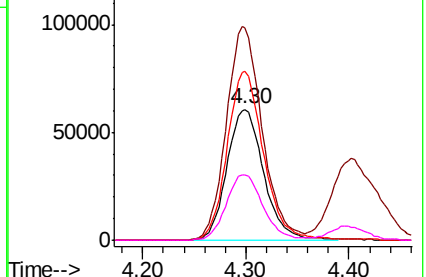
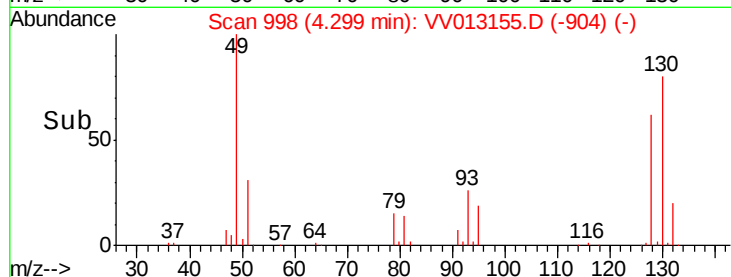


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VV0

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VV0



#25

Chloroform

Concen: 52.837 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VV013155.D

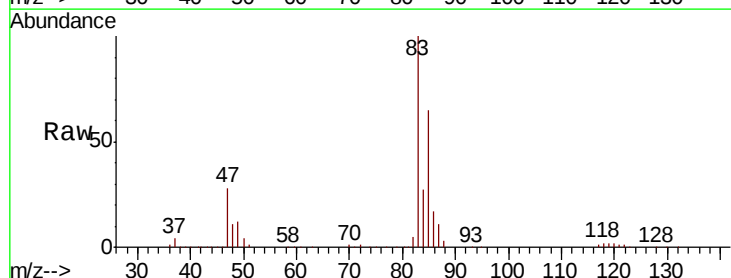
Acq: 14 Oct 2019 20:54

Tgt Ion: 83 Resp: 501692

Ion Ratio Lower Upper

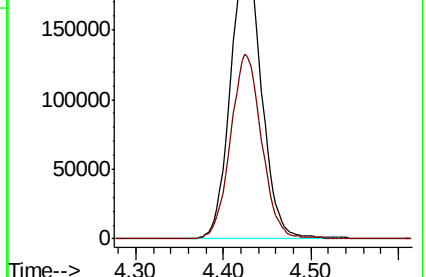
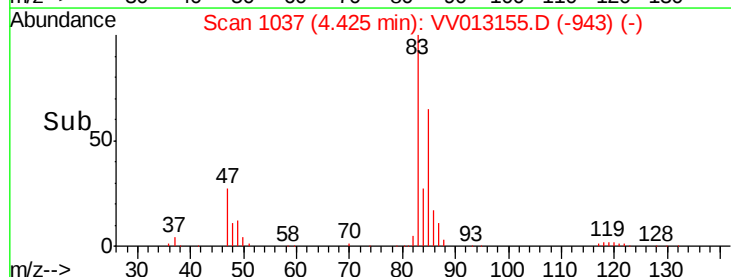
83 100

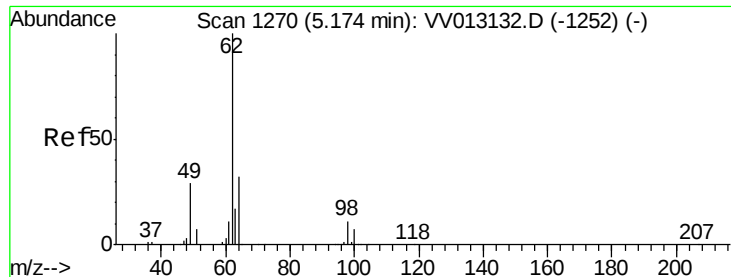
85 65.4 44.7 82.9



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0





#27

1,2-Dichloroethane

Concen: 52.718 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

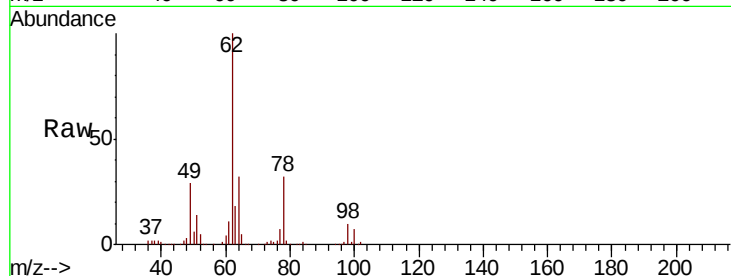
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 383702

Ion Ratio Lower Upper

62 100

98 9.9 8.3 12.5



Abundance Ion 62.00 (61.70 to 62.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

200000

150000

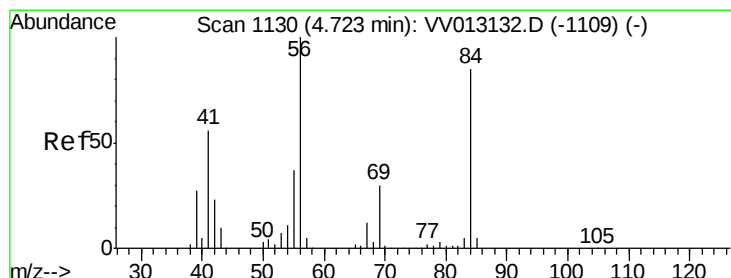
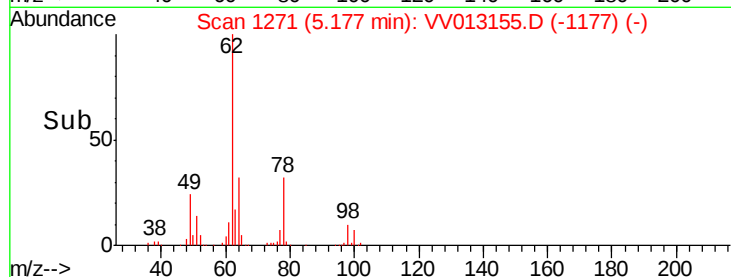
100000

50000

0

5.10 5.20 5.30

Time-->



#29

Cyclohexane

Concen: 51.171 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

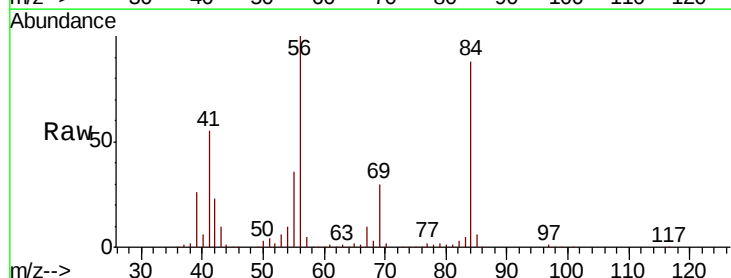
Tgt Ion: 56 Resp: 436609

Ion Ratio Lower Upper

56 100

69 30.0 24.2 36.4

84 87.6 69.9 104.9



Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0

250000

200000

150000

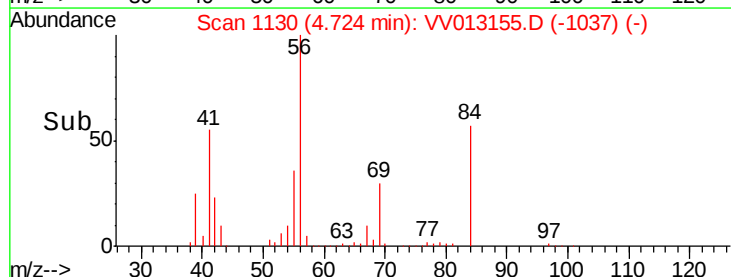
100000

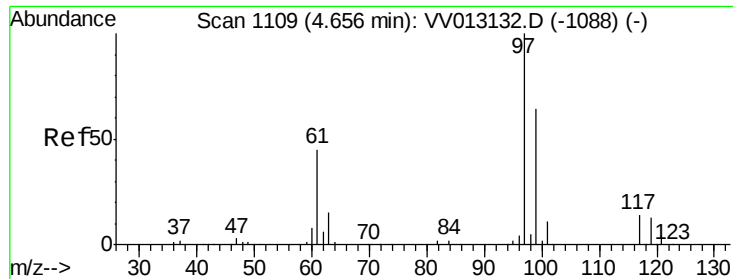
50000

0

4.60 4.70 4.80

Time-->

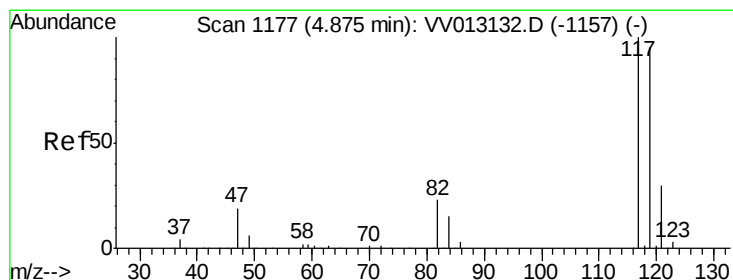
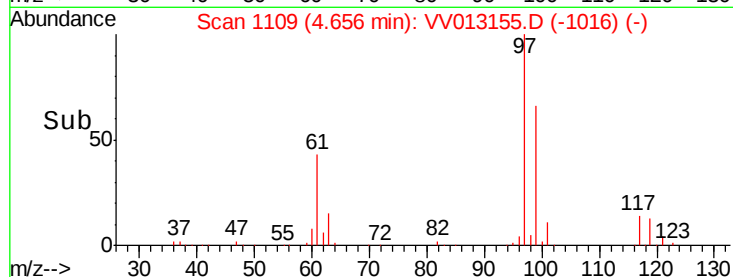
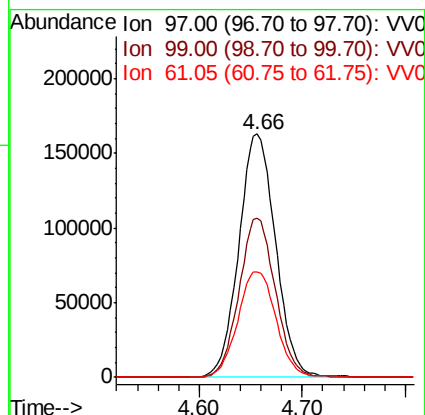
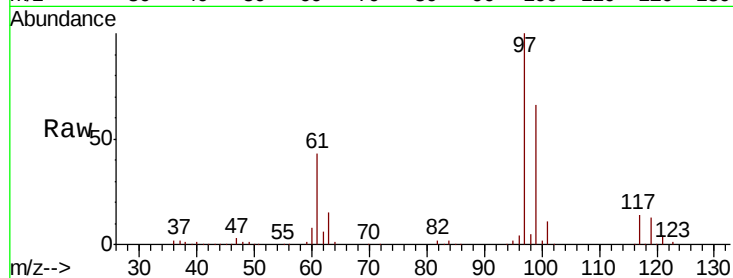




#30
 1,1,1-Trichloroethane
 Concen: 51.128 ug/L
 RT: 4.66 min Scan# 1109
 Delta R.T. 0.00 min
 Lab File: VV013155.D
 Acq: 14 Oct 2019 20:54

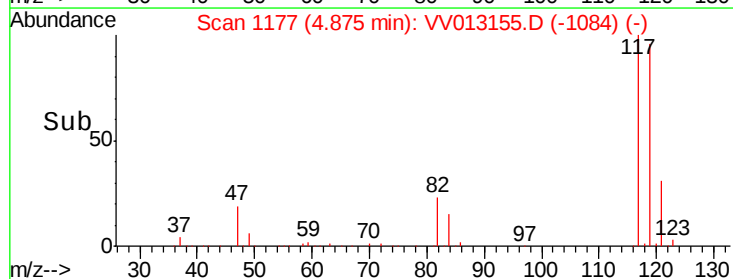
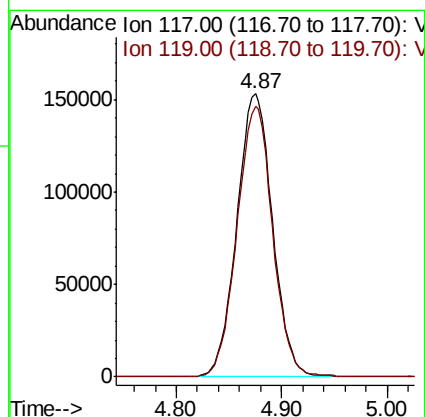
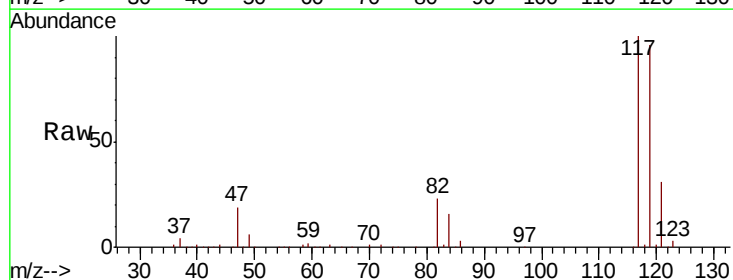
Instrument :
 MSVOA_V
 ClientSampleId :

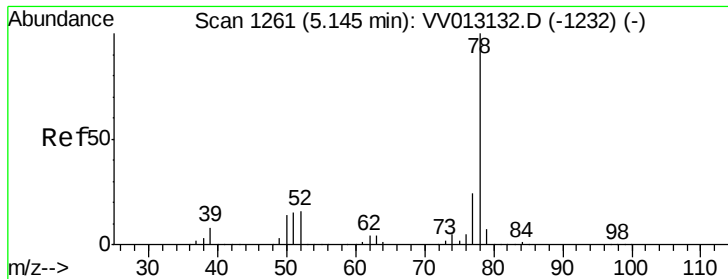
Tot Ion: 97 Resp: 404180
 Ion Ratio Lower Upper
 97 100
 99 64.7 51.9 77.9
 61 45.4 36.8 55.2



#31
 Carbon tetrachloride
 Concen: 51.224 ug/L
 RT: 4.87 min Scan# 1177
 Delta R.T. 0.00 min
 Lab File: VV013155.D
 Acq: 14 Oct 2019 20:54

Tgt Ion: 117 Resp: 359819
 Ion Ratio Lower Upper
 117 100
 119 95.4 77.4 116.0





#33

Benzene

Concen: 52.007 ug/L

RT: 5.14 min Scan# 1261

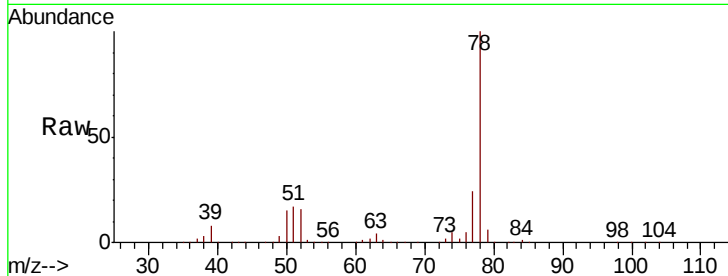
Delta R.T. 0.00 min

Lab File: VV013155.D

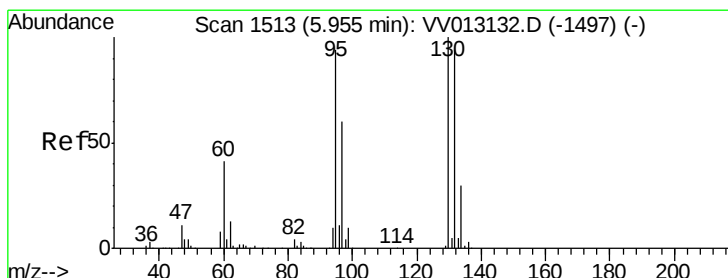
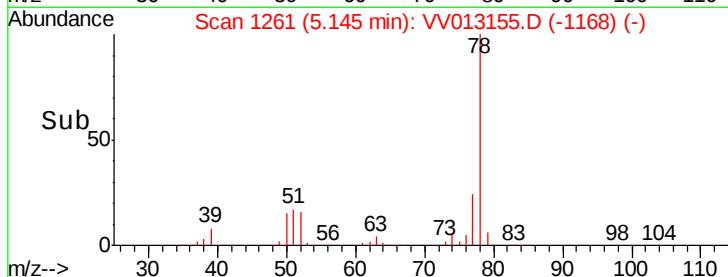
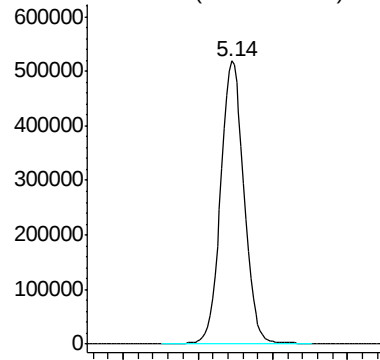
Acq: 14 Oct 2019 20:54

Instrument :
MSVOA_V
ClientSampled :

Tgt Ion: 78 Resp: 1128522



Abundance Ion 78.00 (77.70 to 78.70): VV0



#34

Trichloroethene

Concen: 51.367 ug/L

RT: 5.96 min Scan# 1514

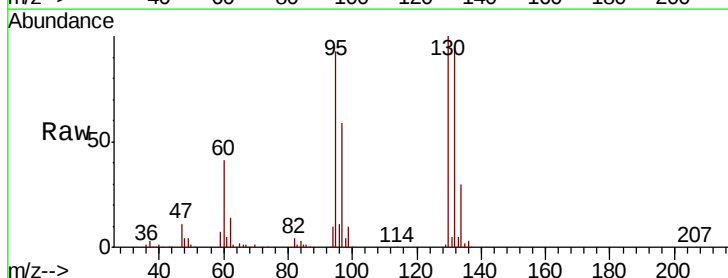
Delta R.T. 0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

Tgt Ion: 95 Resp: 296781

Ion	Ratio	Lower	Upper
95	100		
97	63.9	44.7	82.9
132	102.0	71.4	132.6
130	107.5	74.2	137.8

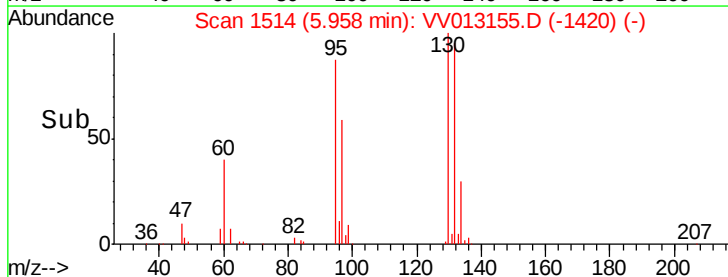


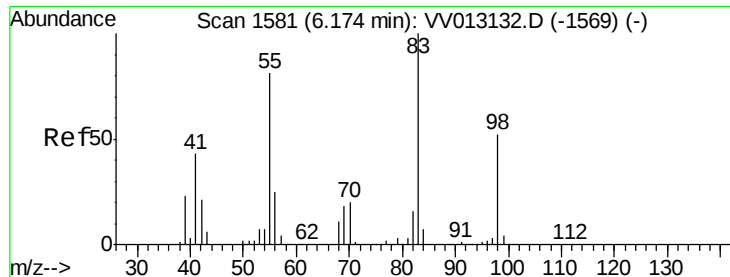
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

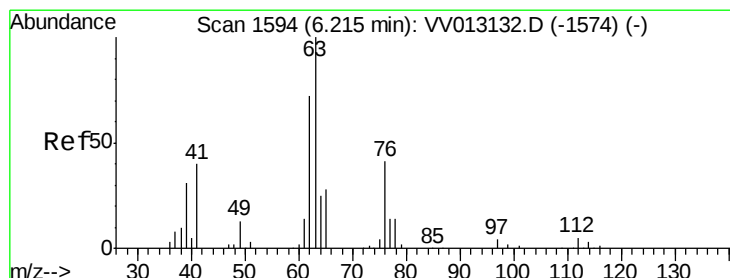
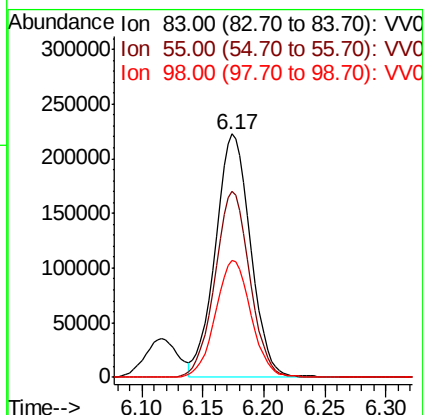
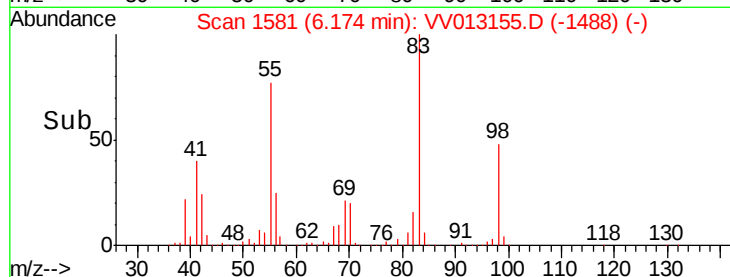
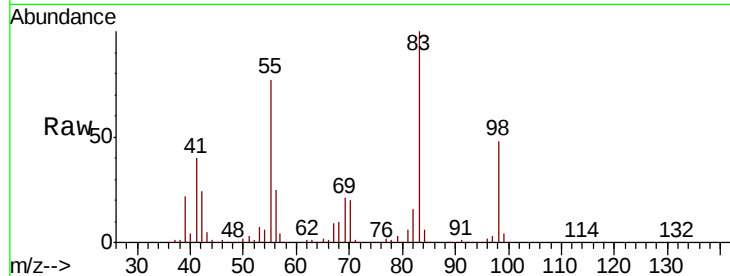




#35
Methvlcvclohexane
Concen: 51.321 ug/L
RT: 6.17 min Scan# 1581
Delta R.T. 0.00 min
Lab File: VV013155.D
Acq: 14 Oct 2019 20:54

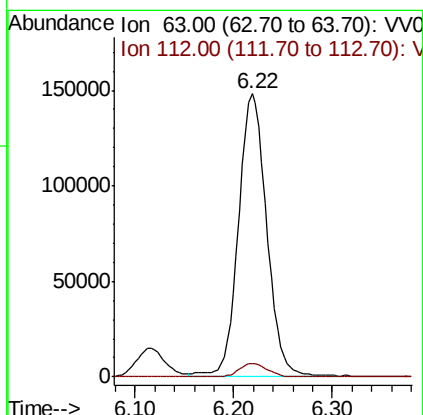
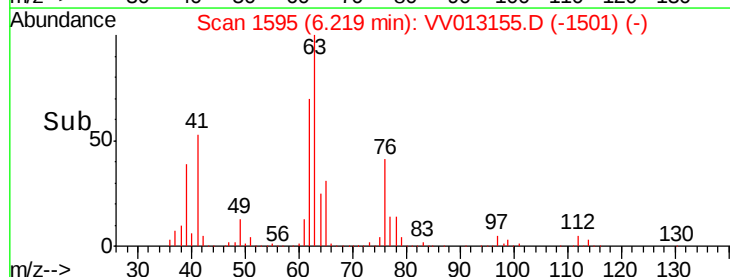
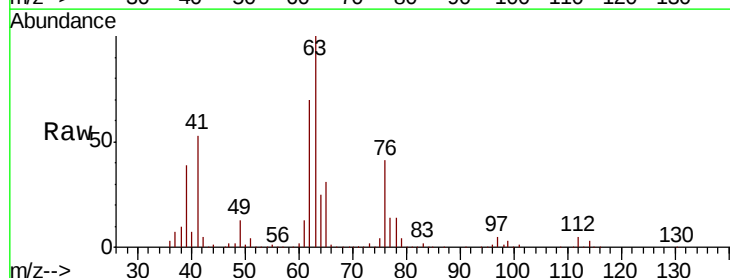
Instrument :
MSVOA_V
ClientSampled :

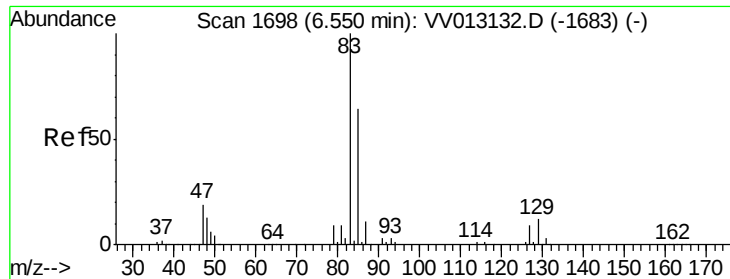
Tot Ion: 83 Resp: 448530
Ion Ratio Lower Upper
83 100
55 76.0 61.2 91.8
98 48.5 40.1 60.1



#37
1,2-Dichloropropane
Concen: 51.938 ug/L
RT: 6.22 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VV013155.D
Acq: 14 Oct 2019 20:54

Tgt Ion: 63 Resp: 291836
Ion Ratio Lower Upper
63 100
112 4.8 3.8 5.8





#38

Bromodichloromethane

Concen: 50.974 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

Instrument :

MSVOA_V

ClientSampleId :

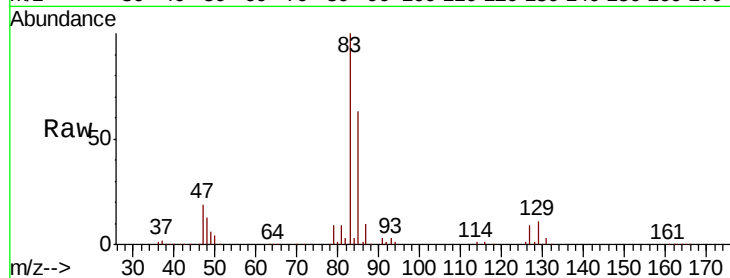
Tot Ion: 83 Resp: 364443

Ion Ratio Lower Upper

83 100

85 63.0 45.8 85.0

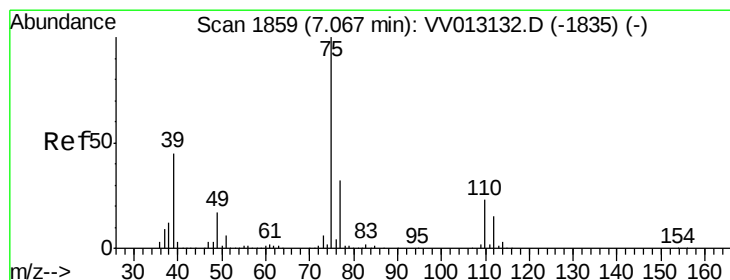
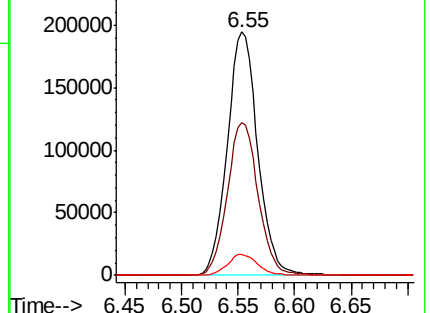
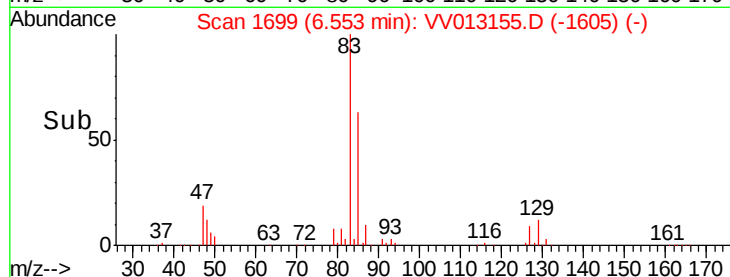
127 8.7 7.4 11.0



Abundance Ion 83.00 (82.70 to 83.70): VV013155.D (-1698) (-)

Ion 85.00 (84.70 to 85.70): VV013155.D (-1698) (-)

Ion 127.00 (126.70 to 127.70): VV013155.D (-1698) (-)



#39

cis-1,3-Dichloropropene

Concen: 50.285 ug/L

RT: 7.07 min Scan# 1859

Delta R.T. 0.00 min

Lab File: VV013155.D

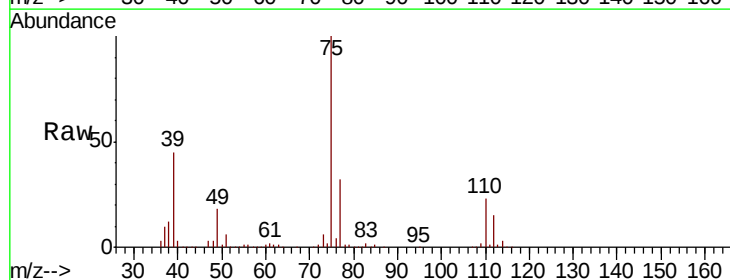
Acq: 14 Oct 2019 20:54

Tgt Ion: 75 Resp: 417884

Ion Ratio Lower Upper

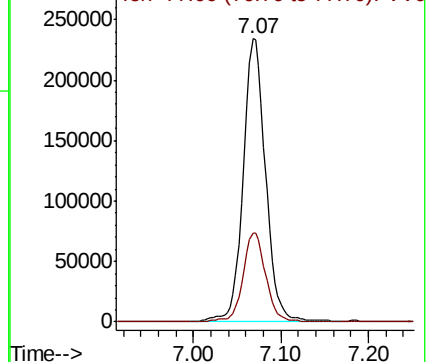
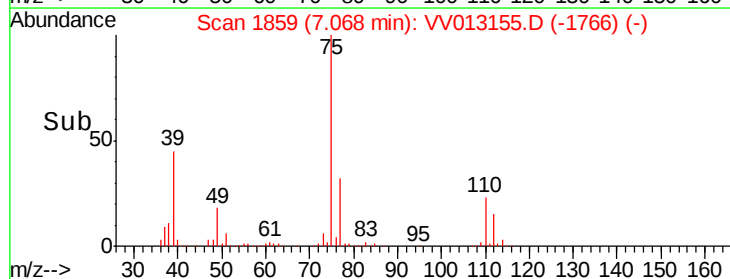
75 100

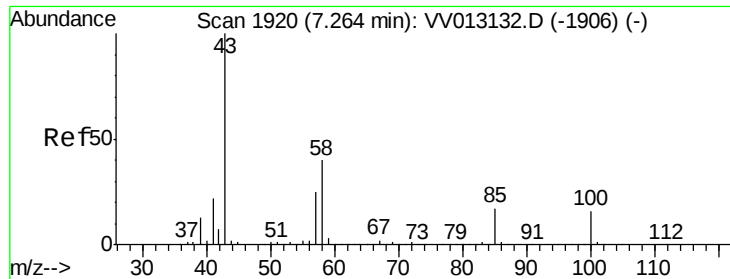
77 31.5 21.7 40.3



Abundance Ion 75.00 (74.70 to 75.70): VV013155.D (-1859) (-)

Ion 77.00 (76.70 to 77.70): VV013155.D (-1859) (-)

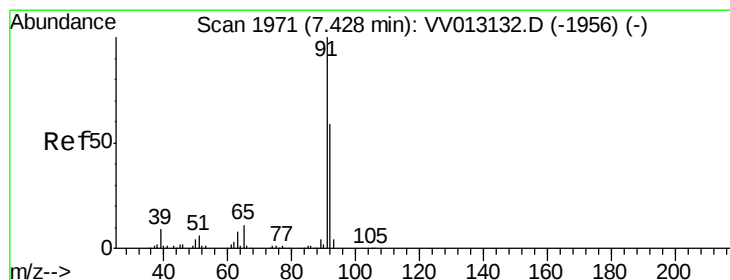
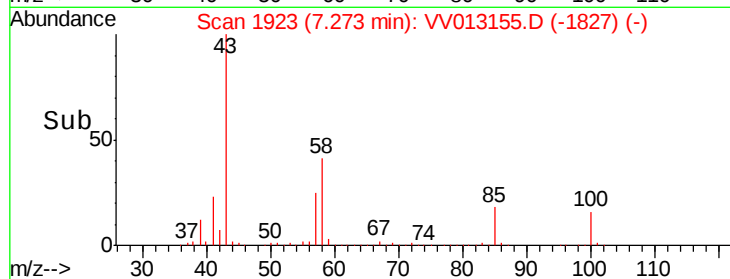
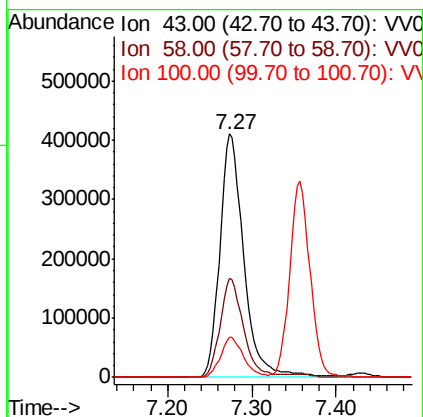
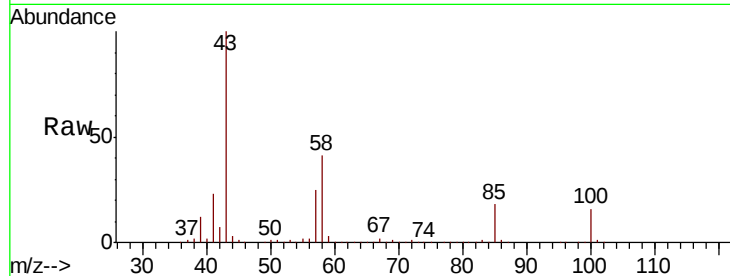




#40
4-Methyl-2-pentanone
Concen: 110.210 ug/L
RT: 7.27 min Scan# 1923
Delta R.T. 0.01 min
Lab File: VV013155.D
Acq: 14 Oct 2019 20:54

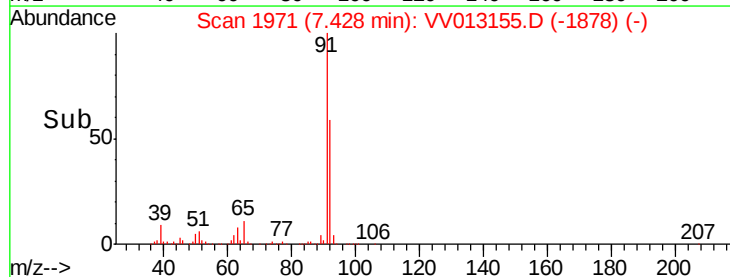
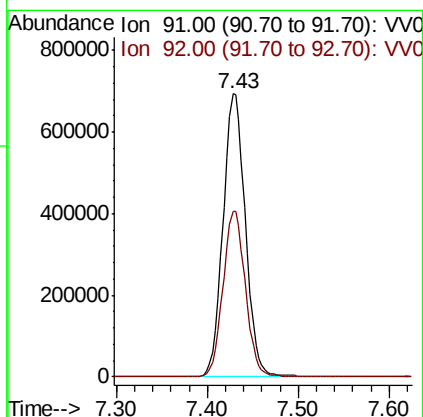
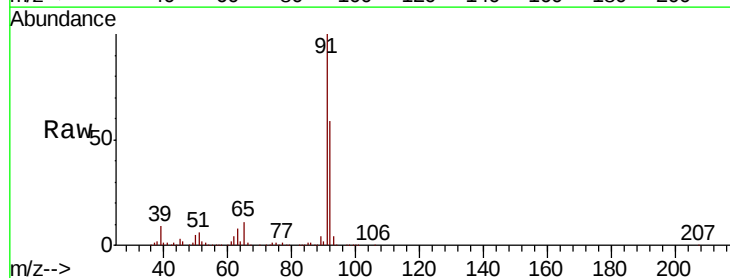
Instrument :
MSVOA_V
ClientSampled :

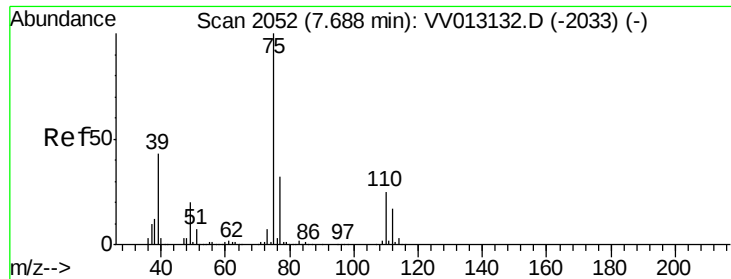
Tot Ion: 43 Resp: 810644
Ion Ratio Lower Upper
43 100
58 39.4 32.0 48.0
100 15.7 12.7 19.1



#42
Toluene
Concen: 53.077 ug/L
RT: 7.43 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VV013155.D
Acq: 14 Oct 2019 20:54

Tgt Ion: 91 Resp: 1185692
Ion Ratio Lower Upper
91 100
92 58.7 40.8 75.8





#44

trans-1,3-Dichloropropene

Concen: 50.356 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

Instrument :

MSVOA_V

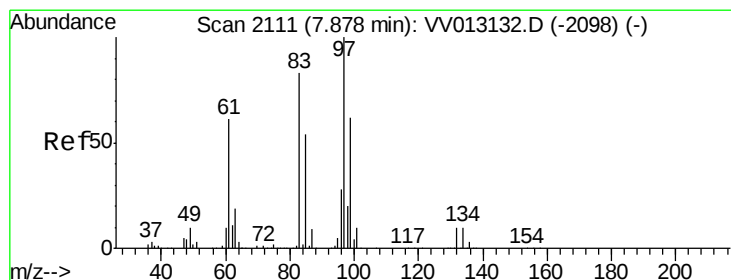
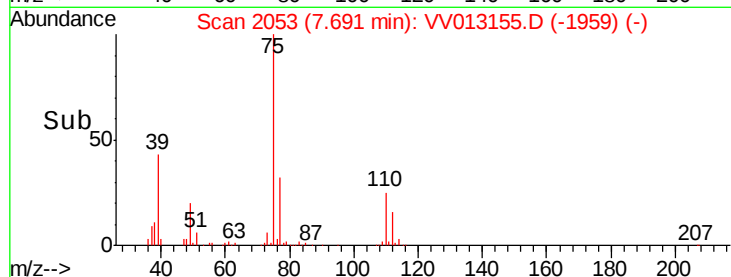
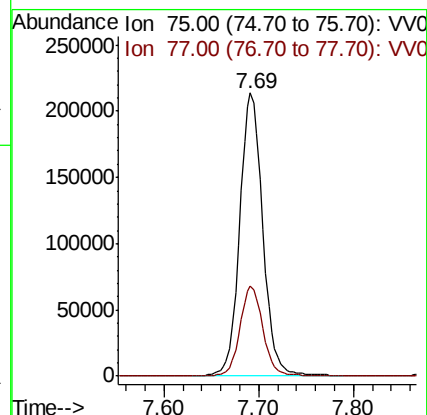
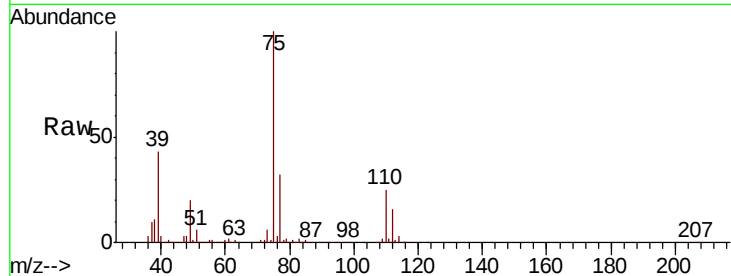
ClientSampleId :

Tot Ion: 75 Resp: 362760

Ion Ratio Lower Upper

75 100

77 31.7 22.0 41.0



#45

1,1,2-Trichloroethane

Concen: 52.213 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

Tgt Ion: 97 Resp: 278540

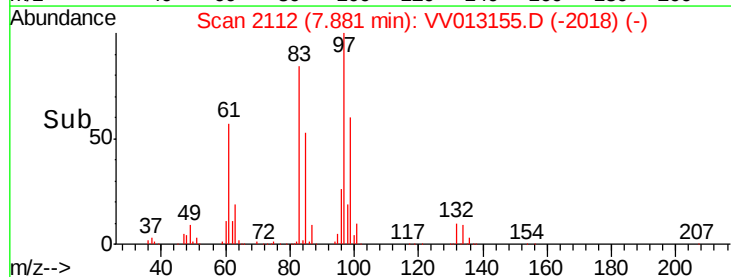
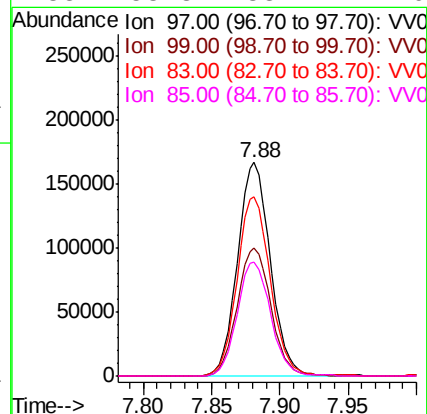
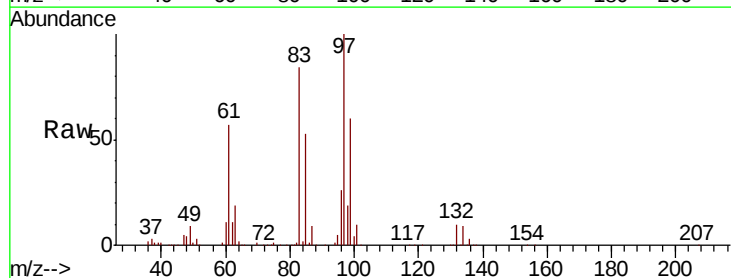
Ion Ratio Lower Upper

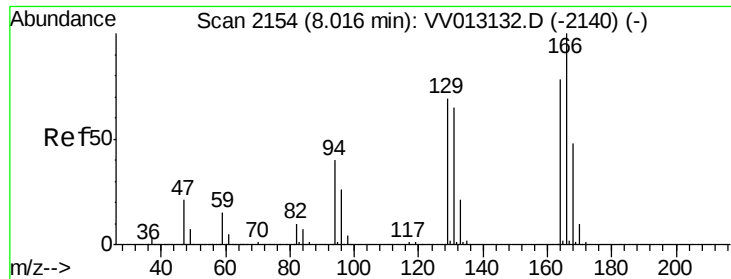
97 100

99 59.9 44.4 82.5

83 84.0 58.2 108.0

85 53.3 38.7 71.9

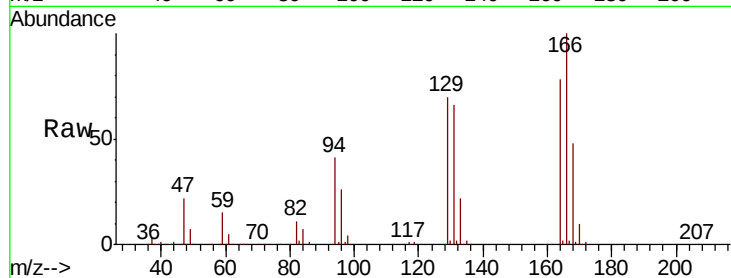




#46
Tetrachloroethene
Concen: 51.159 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV013155.D
Acq: 14 Oct 2019 20:54

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
129	89.3	63.1	117.1
131	84.2	62.4	116.0
166	127.6	91.3	169.6



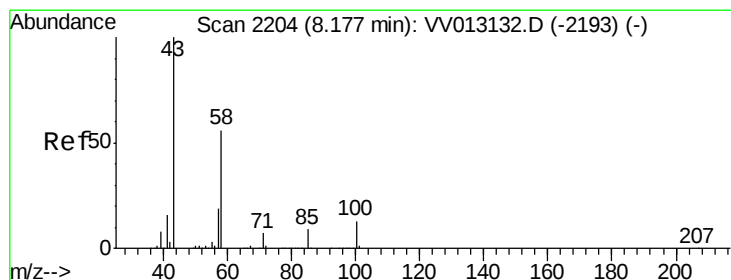
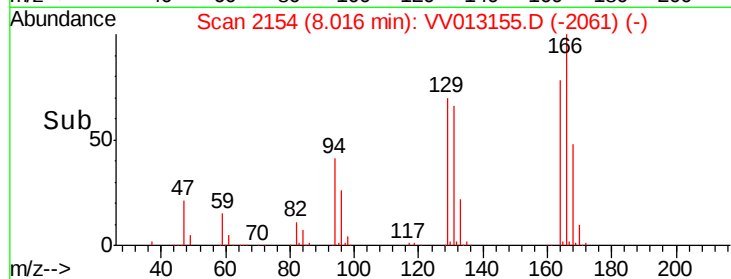
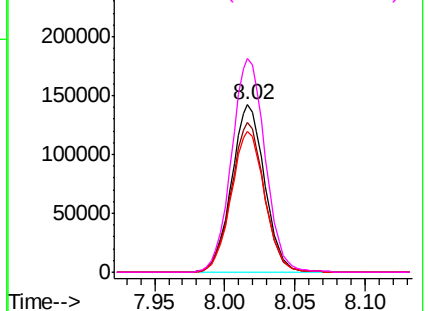
Abundance

Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

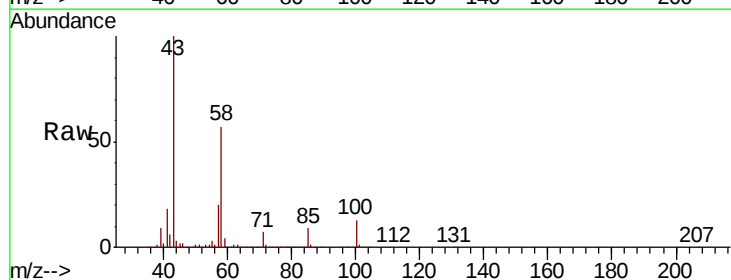
Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48
2-Hexanone
Concen: 112.029 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.01 min
Lab File: VV013155.D
Acq: 14 Oct 2019 20:54

Tgt Ion	Ratio	Lower	Upper
43	100		
58	55.8	44.9	67.3
57	19.2	15.0	22.6
100	12.9	10.2	15.2



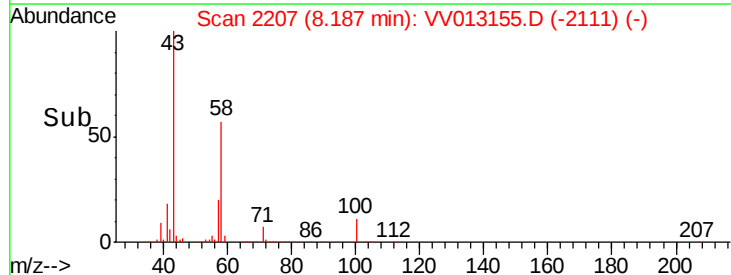
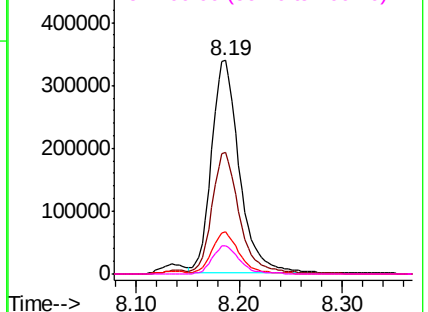
Abundance

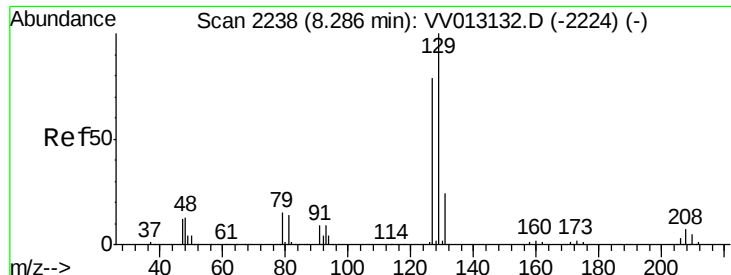
Ion 43.00 (42.70 to 43.70): VV0

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: 51.123 ug/L

RT: 8.29 min Scan# 2238

Delta R.T. 0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

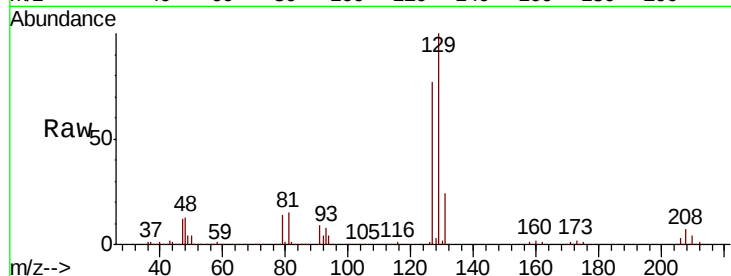
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:129 Resp: 297230

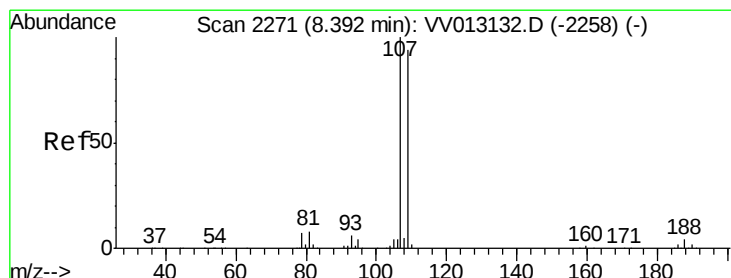
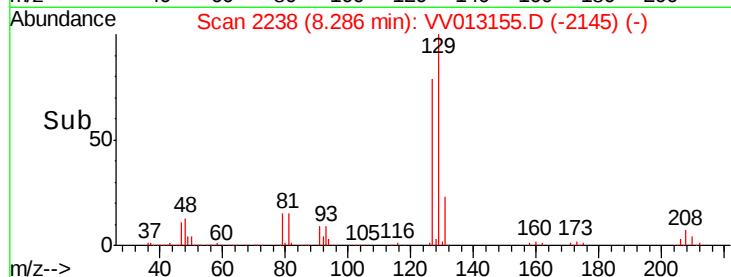
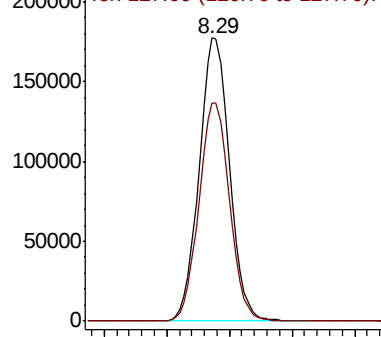
Ion Ratio Lower Upper

129 100

127 77.2 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: 51.776 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

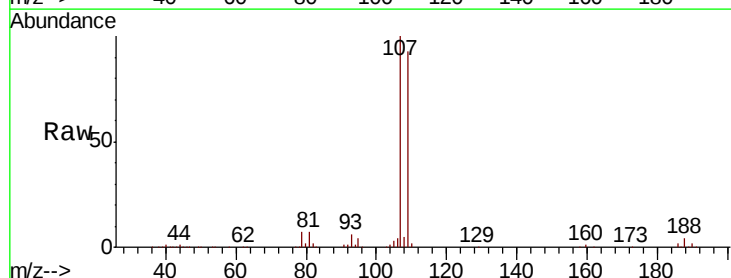
Tgt Ion:107 Resp: 288684

Ion Ratio Lower Upper

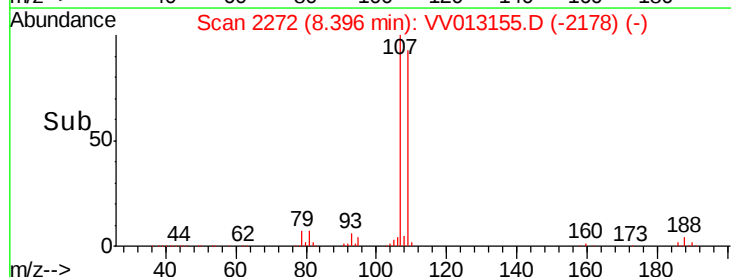
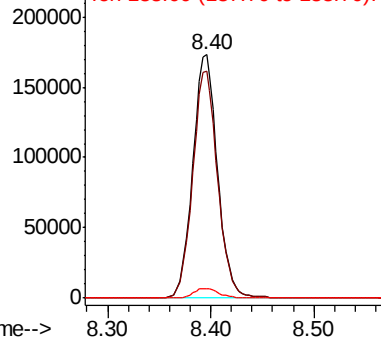
107 100

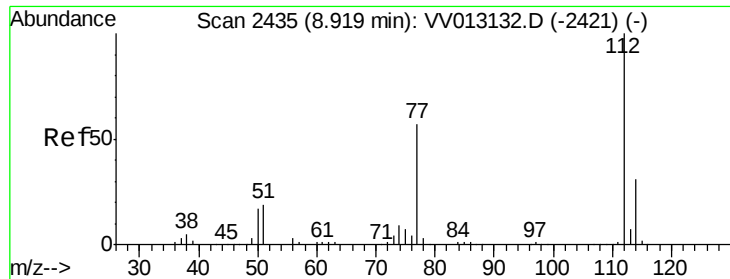
109 93.5 66.6 123.6

188 4.0 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

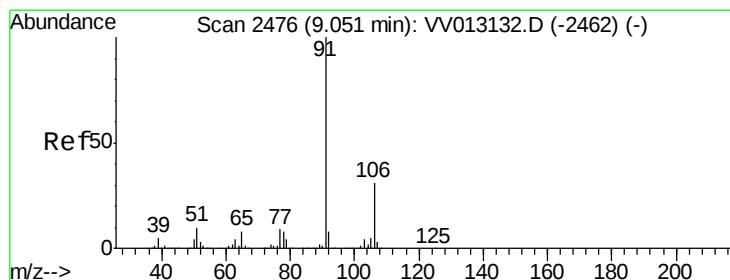
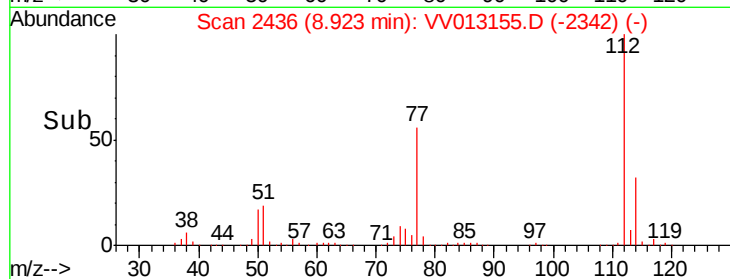
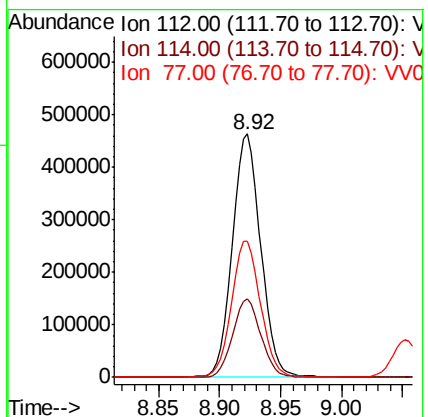
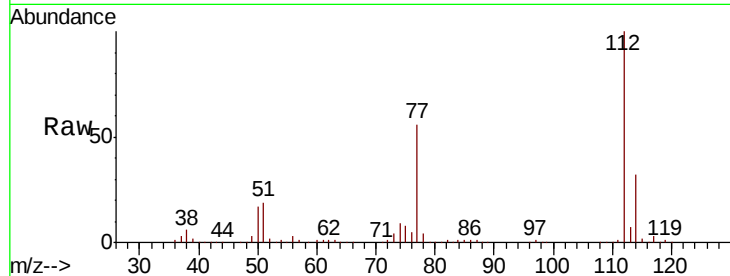




#51
Chlorobenzene
Concen: 51.226 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV013155.D
Acq: 14 Oct 2019 20:54

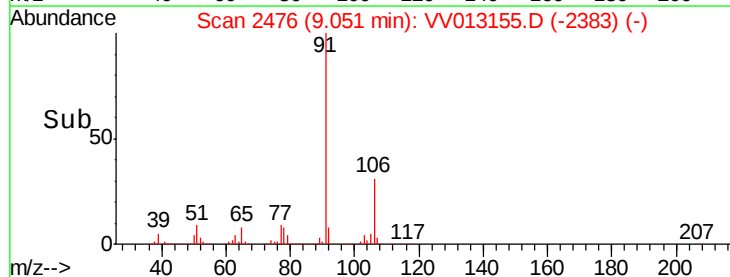
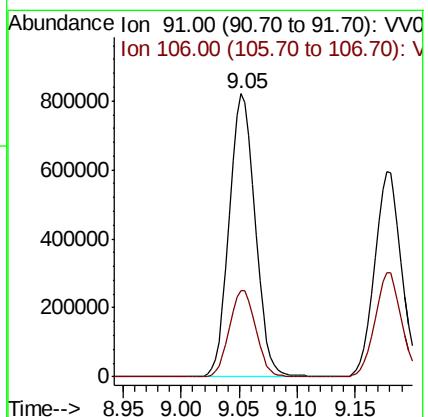
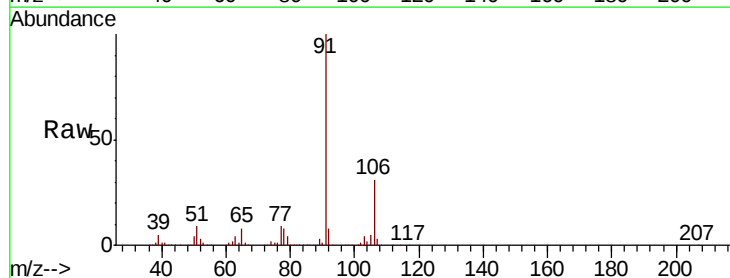
Instrument :
MSVOA_V
ClientSampled :

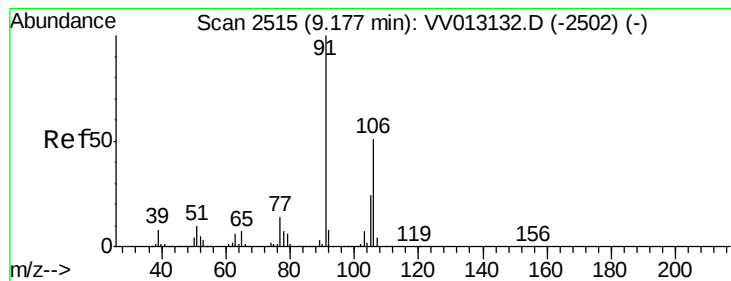
Tot Ion:112 Resp: 750440
Ion Ratio Lower Upper
112 100
114 32.2 22.8 42.4
77 55.8 45.1 67.7



#52
Ethylbenzene
Concen: 53.066 ug/L
RT: 9.05 min Scan# 2476
Delta R.T. 0.00 min
Lab File: VV013155.D
Acq: 14 Oct 2019 20:54

Tgt Ion: 91 Resp: 1266232
Ion Ratio Lower Upper
91 100
106 30.7 21.8 40.4





#53

m,p-Xylene

Concen: 54.164 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

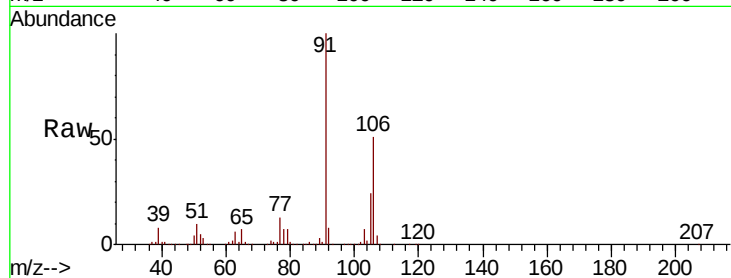
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 486242

Ion Ratio Lower Upper

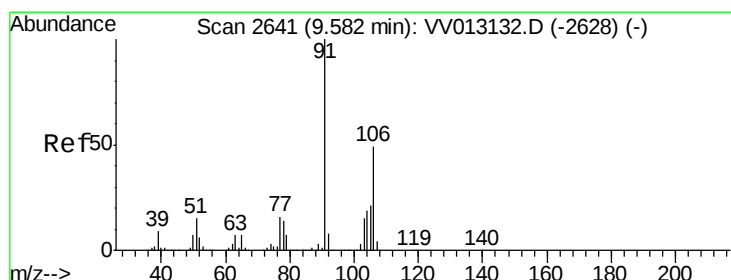
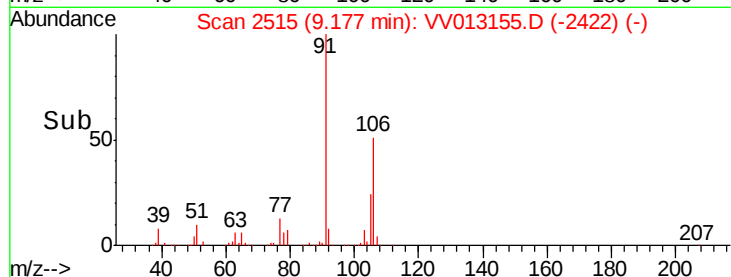
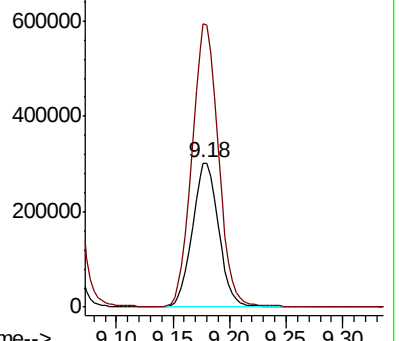
106 100

91 196.0 137.8 255.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 52.378 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV013155.D

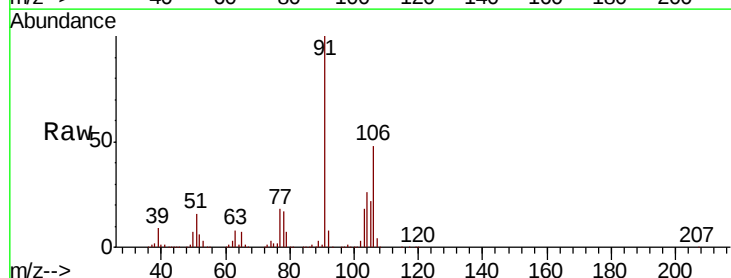
Acq: 14 Oct 2019 20:54

Tgt Ion:106 Resp: 471096

Ion Ratio Lower Upper

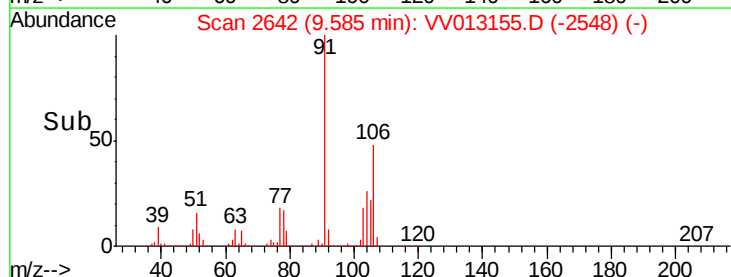
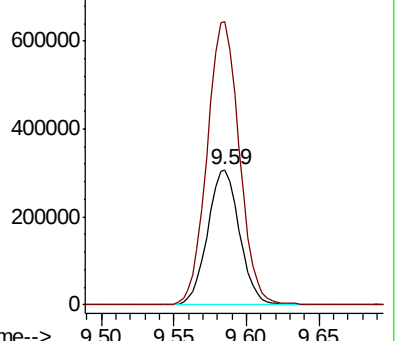
106 100

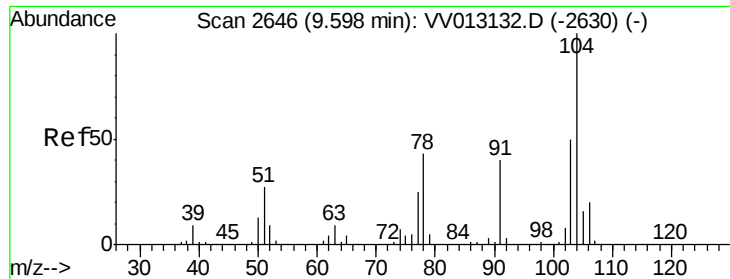
91 208.9 147.6 274.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0

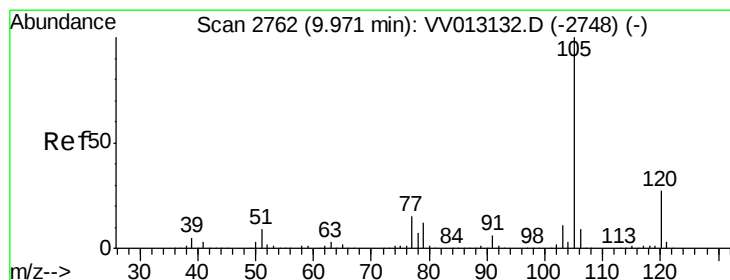
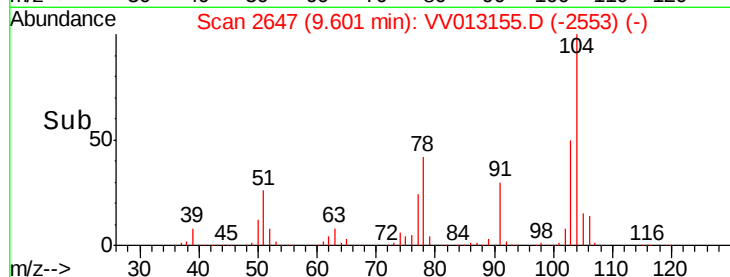
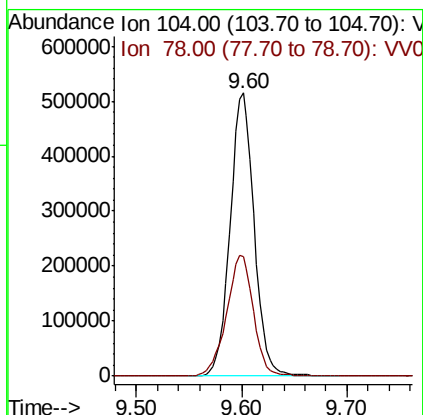
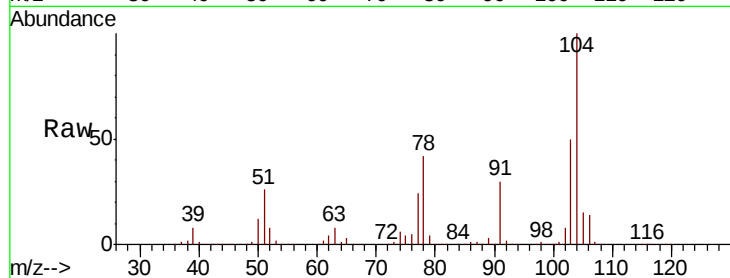




#55
Stvrene
Concen: 54.892 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. 0.00 min
Lab File: VV013155.D
Acq: 14 Oct 2019 20:54

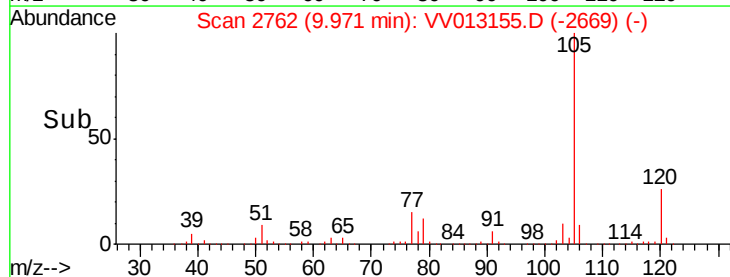
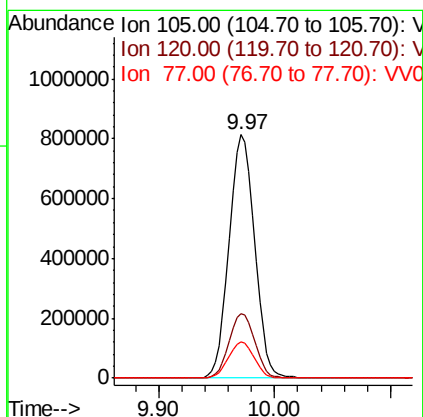
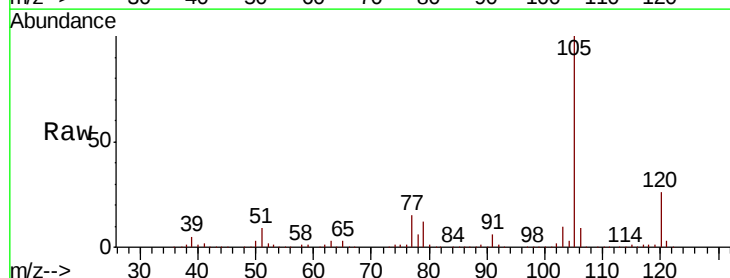
Instrument :
MSVOA_V
ClientSampled :

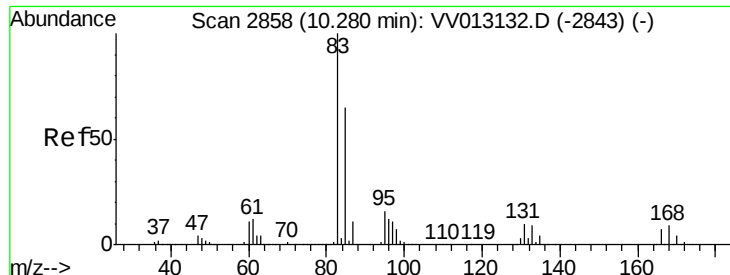
Tot Ion:104 Resp: 810781
Ion Ratio Lower Upper
104 100
78 42.2 29.1 54.1



#56
Isopropylbenzene
Concen: 53.413 ug/L
RT: 9.97 min Scan# 2762
Delta R.T. 0.00 min
Lab File: VV013155.D
Acq: 14 Oct 2019 20:54

Tgt Ion:105 Resp: 1233561
Ion Ratio Lower Upper
105 100
120 26.7 21.4 32.2
77 15.0 12.1 18.1





#58

1,1,2,2-Tetrachloroethane

Concen: 50.001 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

Instrument :

MSVOA_V

ClientSampleId :

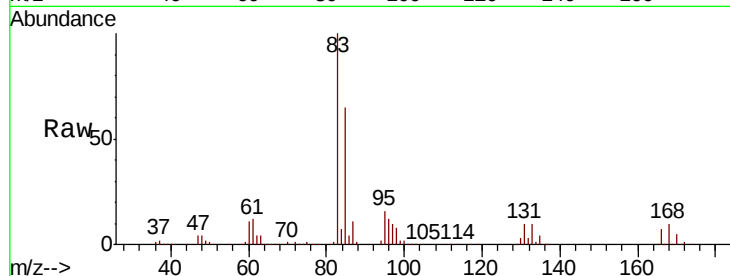
Tot Ion: 83 Resp: 387775

Ion	Ratio	Lower	Upper
83	100		
85	64.7	44.3	82.3
131	10.0	8.1	12.1

83 100

85 64.7 44.3 82.3

131 10.0 8.1 12.1



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): VV0

10.28

250000

200000

150000

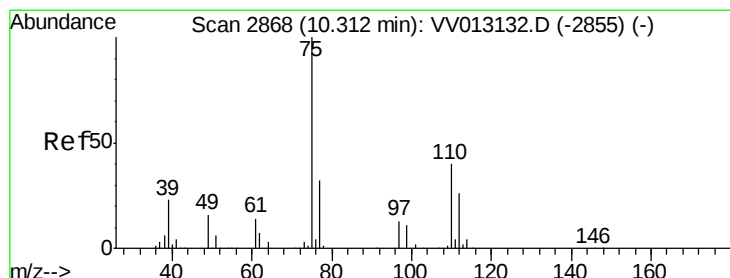
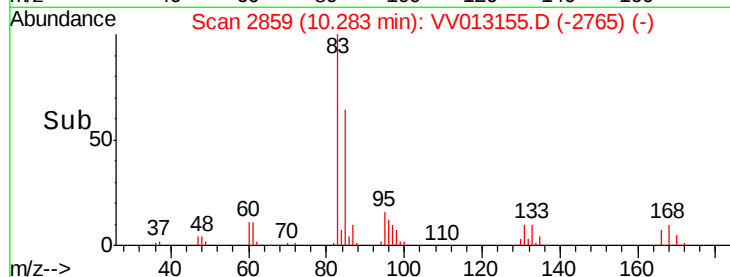
100000

50000

0

Time-->

10.20 10.30



#59

1,2,3-Trichloropropane

Concen: 52.223 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV013155.D

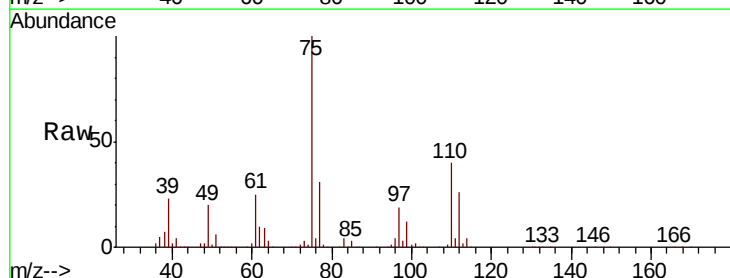
Acq: 14 Oct 2019 20:54

Tgt Ion: 75 Resp: 357236

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.7	38.5

75 100

77 31.6 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

250000

200000

150000

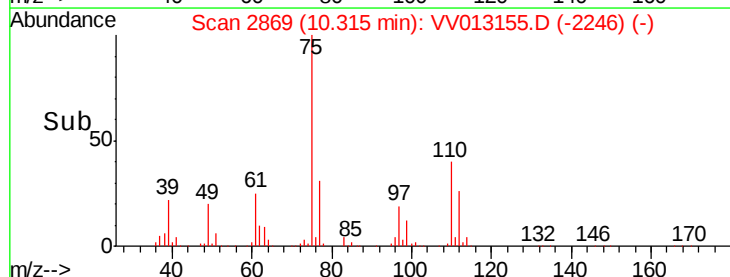
100000

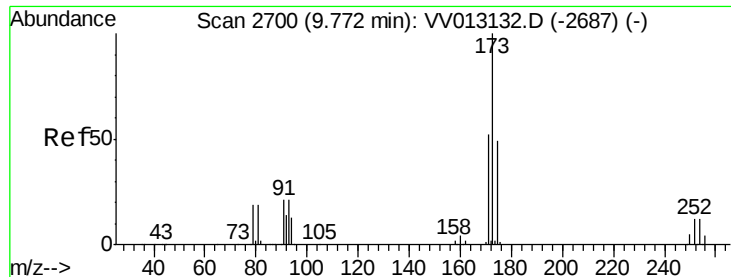
50000

0

Time-->

10.30 10.40





#61

Bromoform

Concen: 48.244 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

Instrument :
MSVOA_V
ClientSampleId :

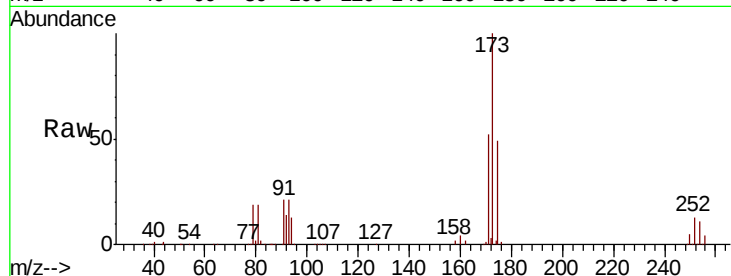
Tot Ion:173 Resp: 216433

Ion Ratio Lower Upper

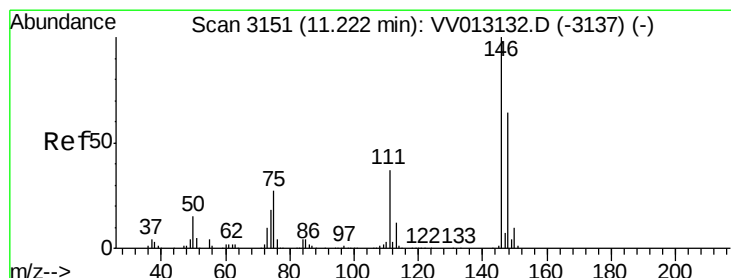
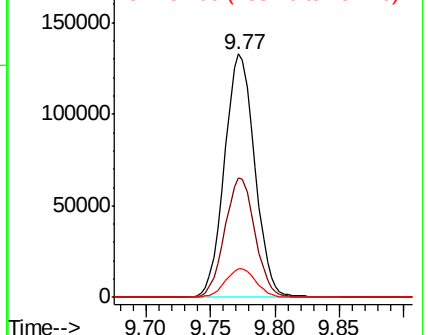
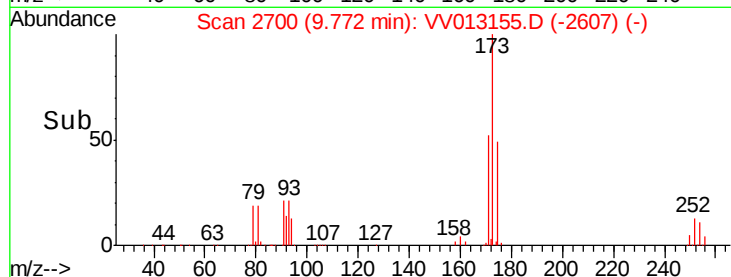
173 100

175 49.0 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: 49.940 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

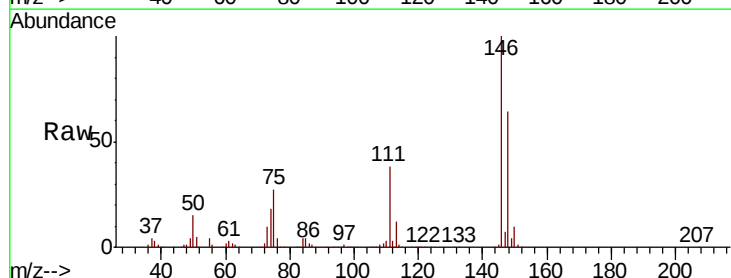
Tgt Ion:146 Resp: 575762

Ion Ratio Lower Upper

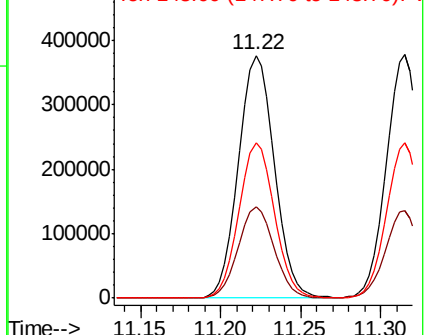
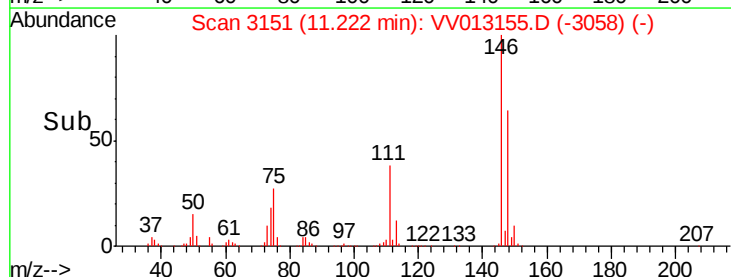
146 100

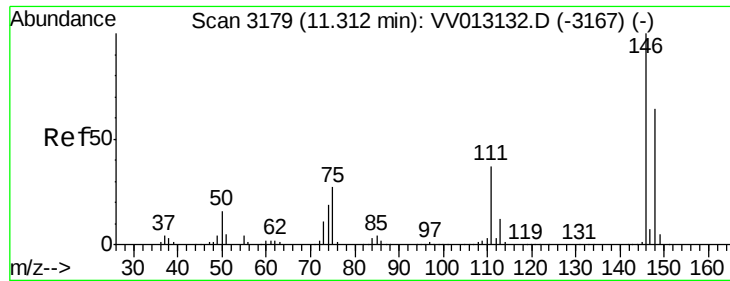
111 37.6 26.6 49.4

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: 49.897 ug/L

RT: 11.32 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

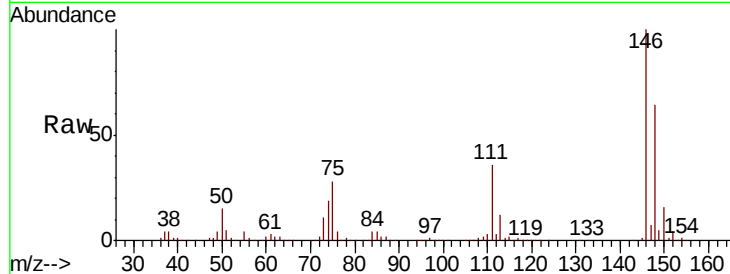
Instrument :

MSVOA_V

ClientSampleId :

Tot Ion:146 Resp: 577686

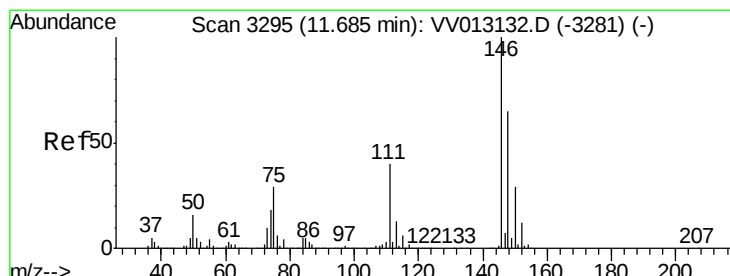
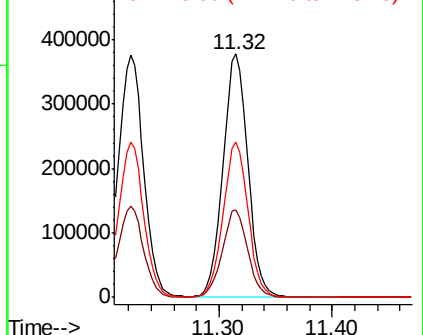
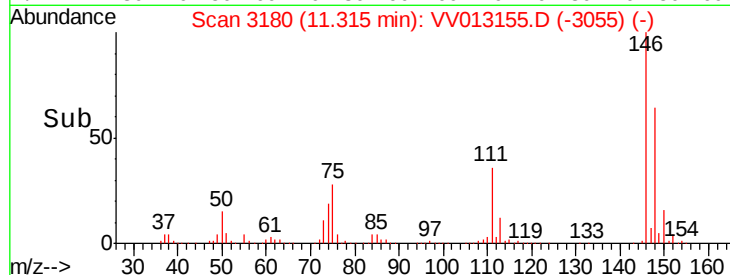
Ion	Ratio	Lower	Upper
146	100		
111	35.9	25.4	47.2
148	63.6	44.2	82.2



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: 49.530 ug/L

RT: 11.69 min Scan# 3296

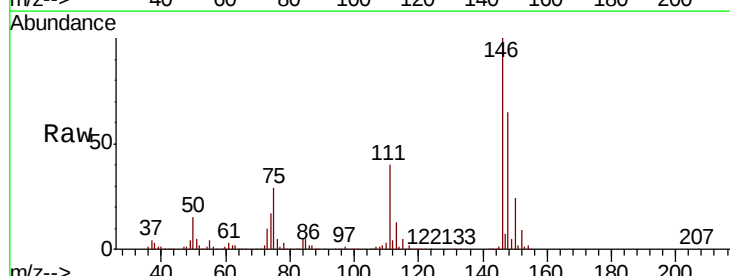
Delta R.T. 0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

Tgt Ion:146 Resp: 581309

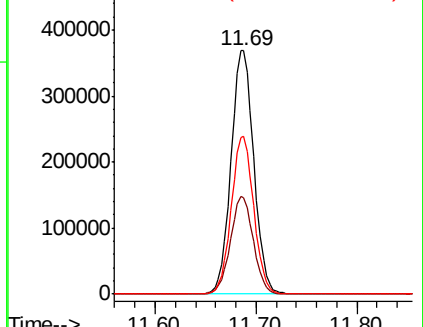
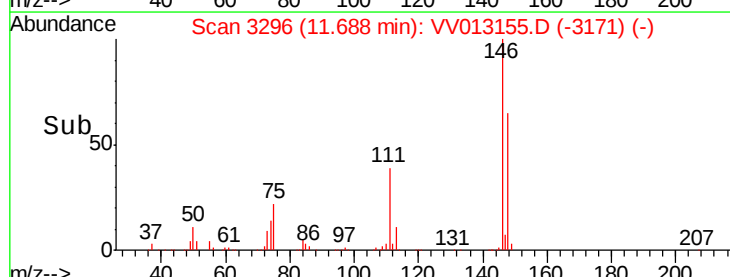
Ion	Ratio	Lower	Upper
146	100		
111	39.8	32.2	48.2
148	64.9	50.6	76.0

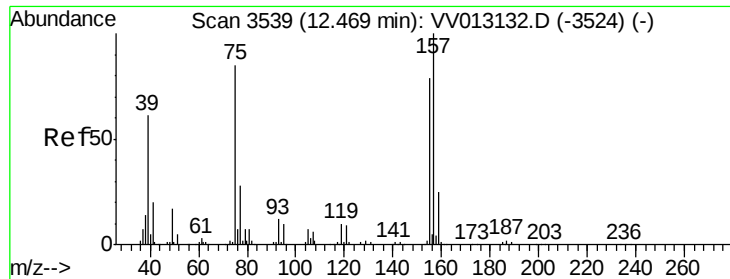


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

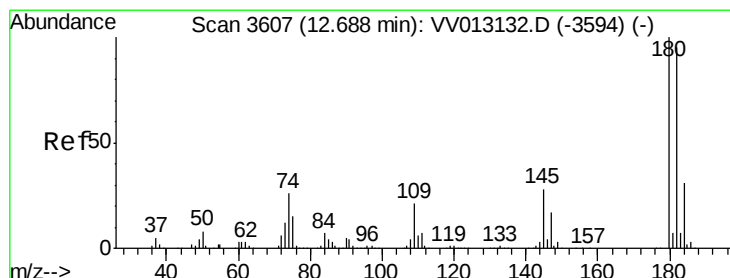
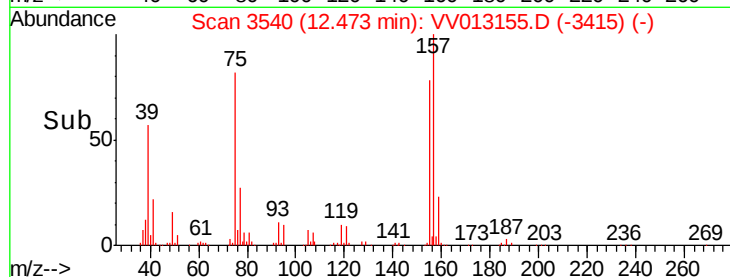
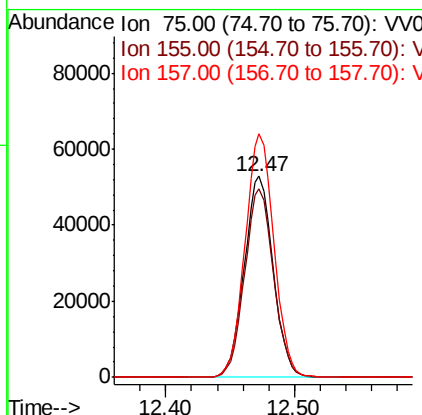
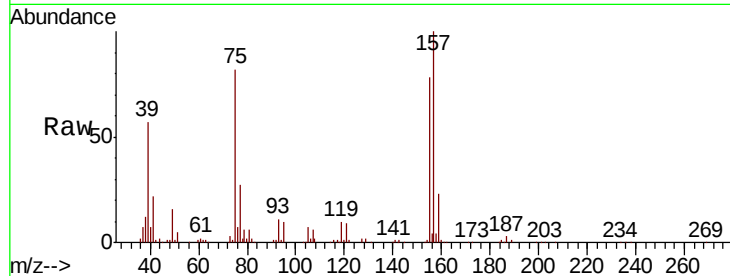




#66
 1,2-Dibromo-3-chloropropane
 Concen: 48.435 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. 0.00 min
 Lab File: VV013155.D
 Acq: 14 Oct 2019 20:54

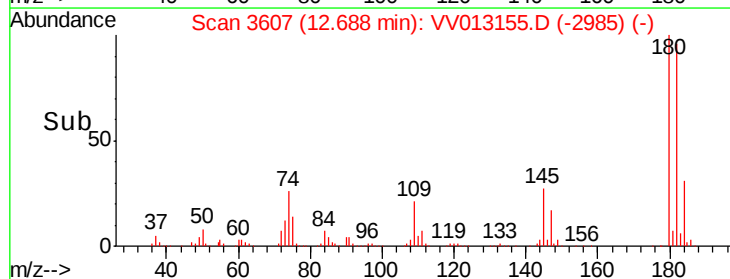
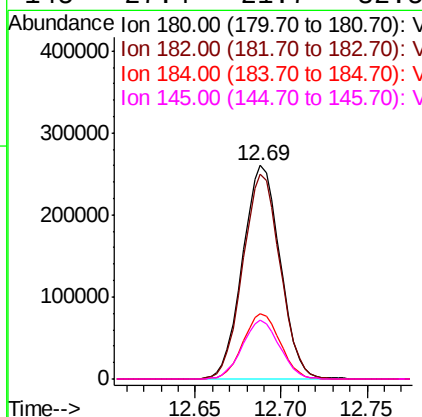
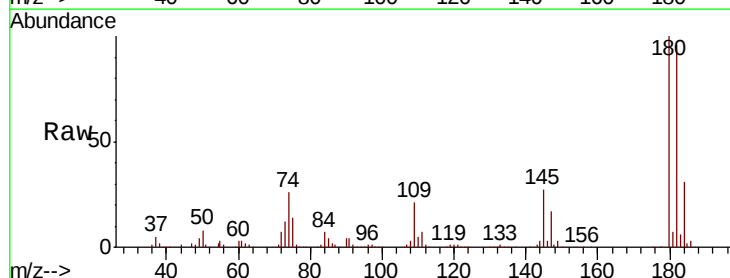
Instrument :
 MSVOA_V
 ClientSampleId :

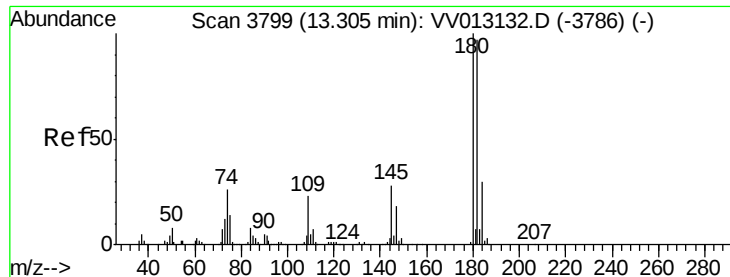
Tot Ion: 75 Resp: 82680
 Ion Ratio Lower Upper
 75 100
 155 94.1 74.6 111.8
 157 121.2 94.2 141.4



#67
 1,3,5-Trichlorobenzene
 Concen: 47.990 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV013155.D
 Acq: 14 Oct 2019 20:54

Tgt Ion: 180 Resp: 394581
 Ion Ratio Lower Upper
 180 100
 182 95.3 76.7 115.1
 184 30.5 24.3 36.5
 145 27.4 21.7 32.5





#68

1,2,4-trichlorobenzene

Concen: 48.227 ug/L

RT: 13.31 min Scan# 3799

Delta R.T. 0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

Instrument :

MSVOA_V

ClientSampleId :

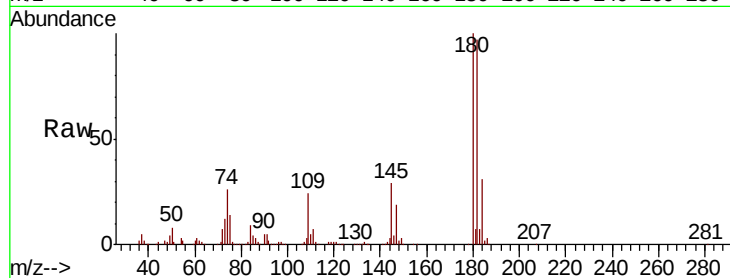
Tot Ion:180 Resp: 340107

Ion Ratio Lower Upper

180 100

182 96.3 77.4 116.0

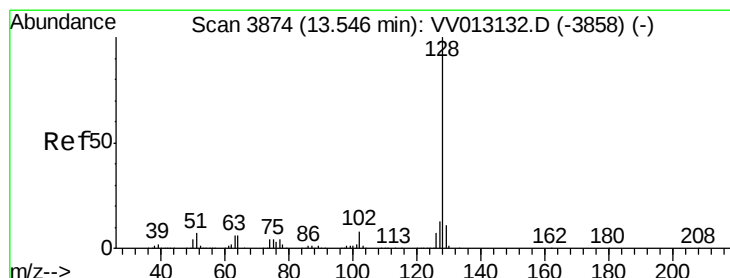
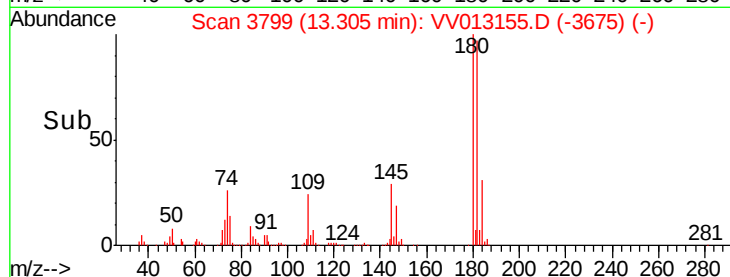
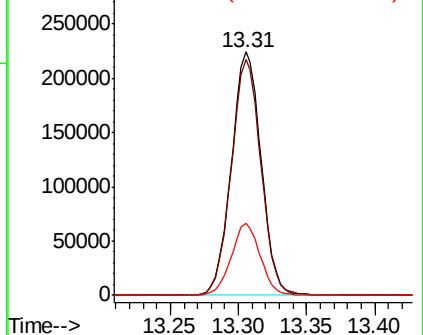
145 28.8 22.7 34.1



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: 51.988 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV013155.D

Acq: 14 Oct 2019 20:54

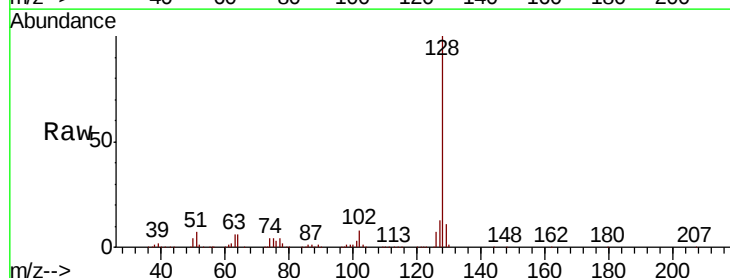
Tgt Ion:128 Resp: 1010037

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

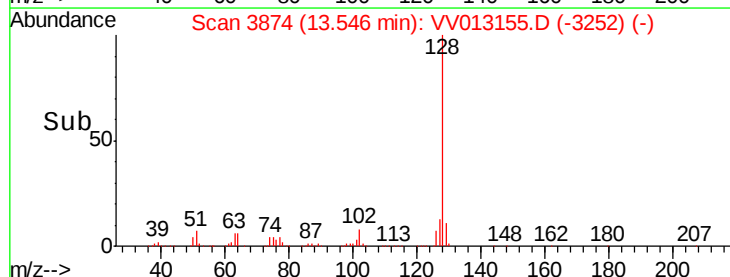
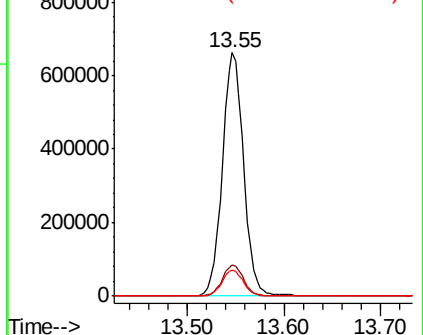
129 10.8 8.6 13.0

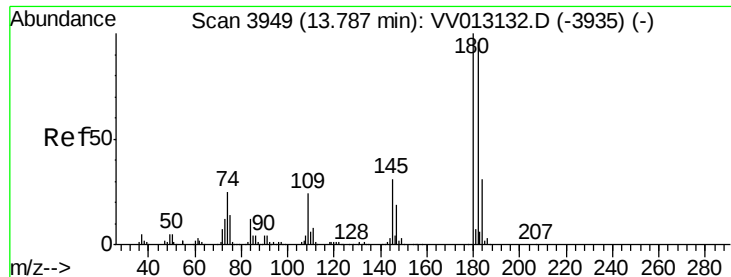


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#70
 1,2,3-Trichlorobenzene
 Concen: 51.241 ug/L
 RT: 13.79 min Scan# 3949
 Delta R.T. 0.00 min
 Lab File: VV013155.D
 Acq: 14 Oct 2019 20:54

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:	180	Resp:	386547
Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.9	115.3
145	29.4	23.8	35.8

