

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092618\
 Data File : VV007877.D
 Acq On : 26 Sep 2018 12:12
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.0 mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 27 04:52:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092518WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Sep 26 04:58:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	198983	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	198074	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	110777	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	53157	42.62	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.24%
7) Chloroethane-d5	1.59	69	47934	44.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.00%
11) 1,1-Dichloroethene-d2	2.14	63	121724	45.80	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.60%
21) 2-Butanone-d5	3.94	46	102577	122.02	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	122.02%
24) Chloroform-d	4.41	84	131314	50.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.36%
26) 1,2-Dichloroethane-d4	5.09	65	89679	48.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.08%
32) Benzene-d6	5.10	84	247363	46.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.26%
36) 1,2-Dichloropropane-d6	6.12	67	78295	47.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.26%
41) Toluene-d8	7.36	98	248713	46.51	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.02%
43) trans-1,3-Dichloropropene-	7.67	79	39498	49.94	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.88%
47) 2-Hexanone-d5	8.14	63	75337	107.39	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	107.39%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	118531	48.34	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.68%
64) 1,2-Dichlorobenzene-d4	11.68	152	114744	46.59	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.18%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	72458	50.417	ug/L	99
3) Chloromethane	1.26	50	64834	47.766	ug/L	99
5) Vinyl chloride	1.33	62	70763	48.572	ug/L	97
6) Bromomethane	1.53	94	43904	54.418	ug/L	97
8) Chloroethane	1.60	64	44706	49.197	ug/L	99
9) Trichlorofluoromethane	1.78	101	122886	50.340	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.15	101	70027	51.330	ug/L	99
12) 1,1-Dichloroethene	2.15	96	61564	50.286	ug/L	97
13) Acetone	2.19	43	100821	99.551	ug/L	100
14) Carbon disulfide	2.32	76	158154	49.514	ug/L	99
15) Methyl Acetate	2.46	43	75602	50.887	ug/L	100
16) Methylene chloride	2.54	84	69591	51.368	ug/L	97
17) trans-1,2-Dichloroethene	2.79	96	66027	50.551	ug/L	97
18) Methyl tert-butyl Ether	2.81	73	207212	50.916	ug/L	99
19) 1,1-Dichloroethane	3.23	63	112197	50.055	ug/L	99
20) cis-1,2-Dichloroethene	3.96	96	70613	49.894	ug/L	97
22) 2-Butanone	4.03	43	116915	100.742	ug/L	100

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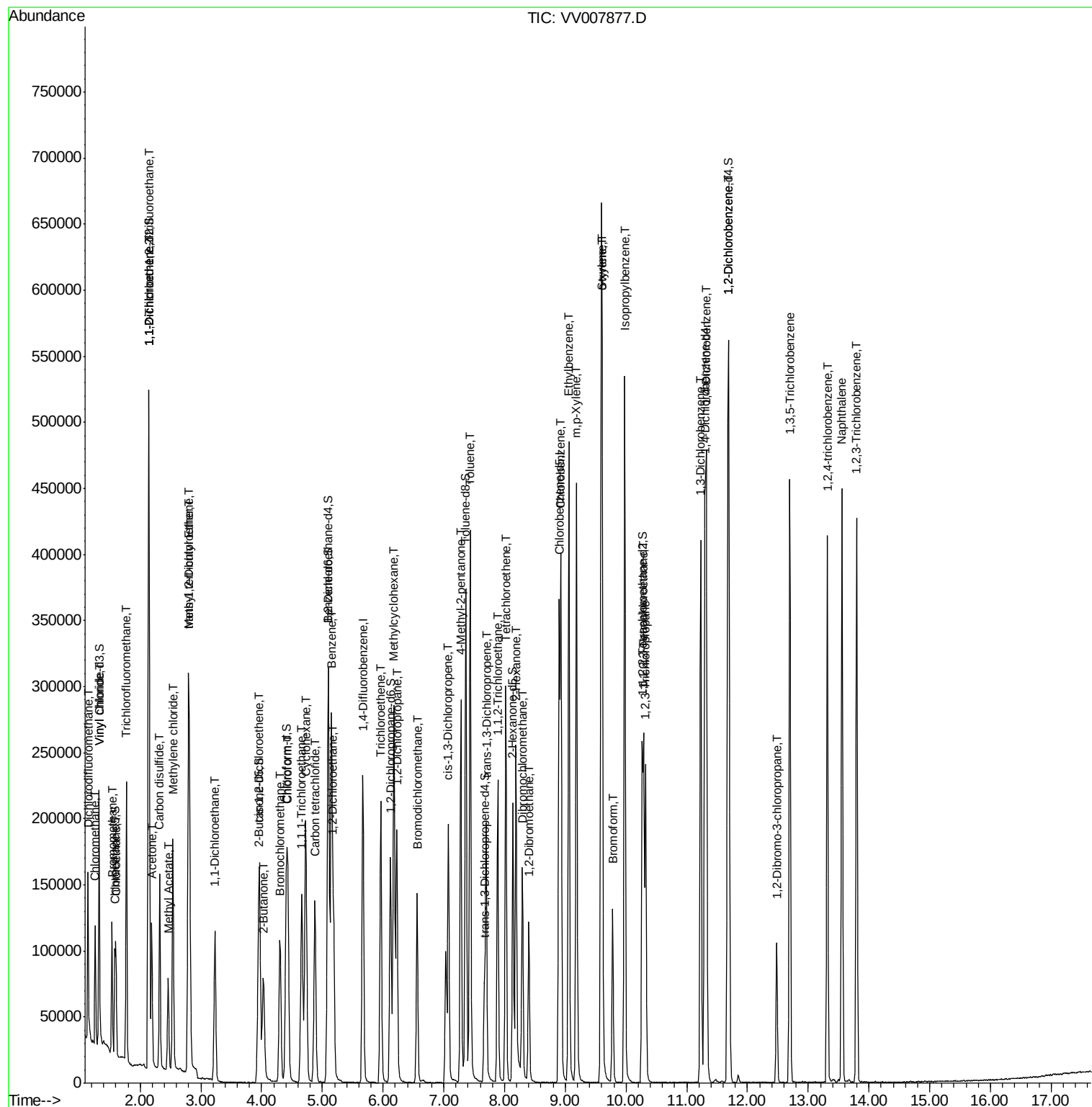
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	37747	51.264	ug/L	98
25) Chloroform	4.43	83	127891	48.073	ug/L	99
27) 1,2-Dichloroethane	5.18	62	105238	49.912	ug/L	100
29) Cyclohexane	4.73	56	103146	48.694	ug/L	96
30) 1,1,1-Trichloroethane	4.66	97	113272	50.491	ug/L	99
31) Carbon tetrachloride	4.88	117	101499	51.209	ug/L	98
33) Benzene	5.15	78	268252	50.363	ug/L	100
34) Trichloroethene	5.96	95	71812	48.604	ug/L	98
35) Methylcyclohexane	6.18	83	115430	49.799	ug/L	100
37) 1,2-Dichloropropane	6.23	63	70671	49.752	ug/L	100
38) Bromodichloromethane	6.56	83	91538	50.917	ug/L	100
39) cis-1,3-Dichloropropene	7.07	75	109472	53.086	ug/L	98
40) 4-Methyl-2-pentanone	7.28	43	197515	98.397	ug/L	99
42) Toluene	7.43	91	300013	49.993	ug/L	100
44) trans-1,3-Dichloropropene	7.70	75	105921	51.678	ug/L	98
45) 1,1,2-Trichloroethane	7.89	97	70084	49.373	ug/L	98
46) Tetrachloroethene	8.02	164	68401	48.179	ug/L	97
48) 2-Hexanone	8.19	43	167467	105.557	ug/L	97
49) Dibromochloromethane	8.29	129	79743	51.377	ug/L	98
50) 1,2-Dibromoethane	8.40	107	75248	49.301	ug/L	99
51) Chlorobenzene	8.93	112	206687	49.759	ug/L	99
52) Ethylbenzene	9.06	91	339637	50.103	ug/L	100
53) m,p-Xylene	9.18	106	129576	50.171	ug/L	99
54) o-xylene	9.59	106	127779	50.932	ug/L	98
55) Styrene	9.61	104	224376	52.215	ug/L	97
56) Isopropylbenzene	9.98	105	346335	50.648	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	116573	50.251	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	93198	49.286	ug/L	100
61) Bromoform	9.78	173	60034	51.390	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	175841	50.732	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	182925	49.664	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	178287	49.568	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.48	75	23710	50.382	ug/L	98
67) 1,3,5-Trichlorobenzene	12.70	180	147396	50.442	ug/L	100
68) 1,2,4-trichlorobenzene	13.32	180	131701	53.419	ug/L	100
69) Naphthalene	13.56	128	348062	57.712	ug/L	99
70) 1,2,3-Trichlorobenzene	13.80	180	134413	53.845	ug/L	99

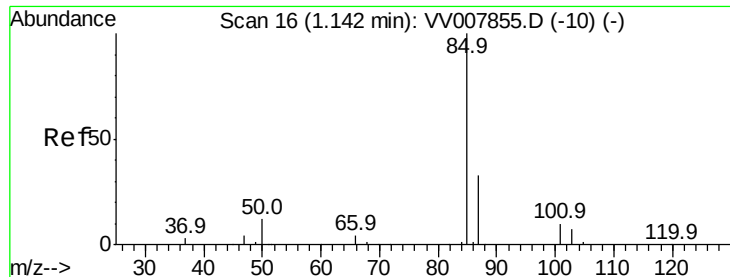
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 50.417 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

Instrument :

MSVOA_V

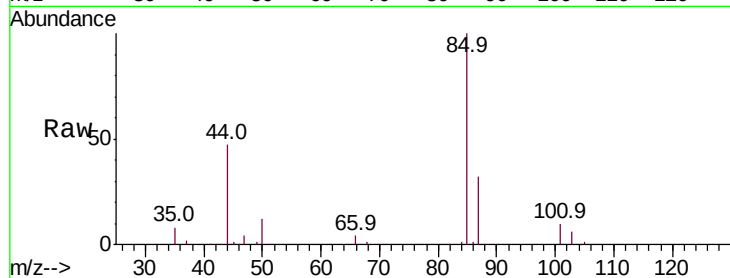
ClientSampleId :

Tot Ion: 85 Resp: 72458

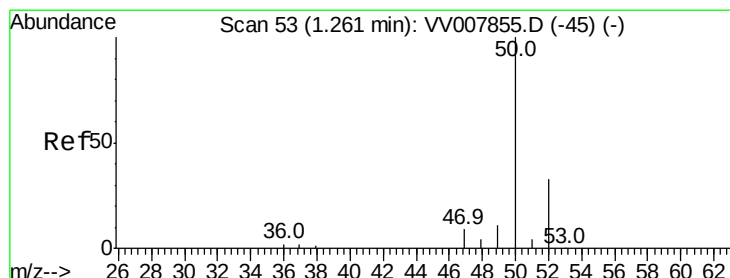
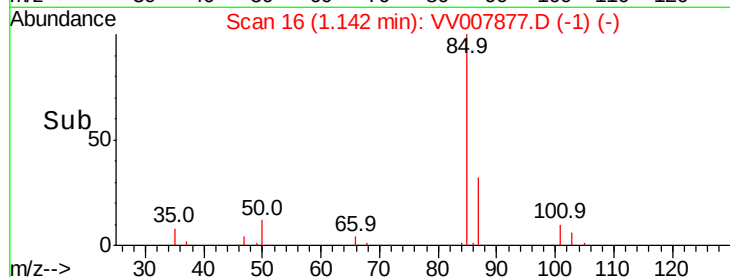
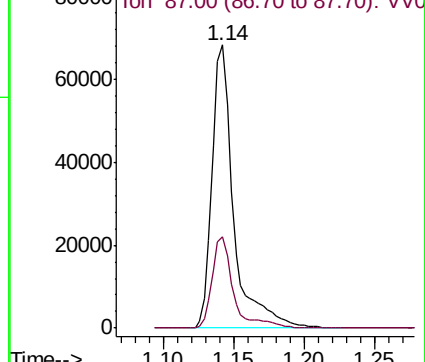
Ion Ratio Lower Upper

85 100

87 31.7 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VV007855.D (-10) (-)



#3

Chloromethane

Concen: 47.766 ug/L

RT: 1.26 min Scan# 52

Delta R.T. -0.00 min

Lab File: VV007877.D

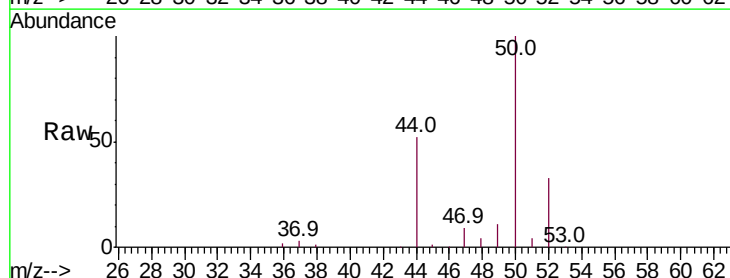
Acq: 26 Sep 2018 12:12

Tgt Ion: 50 Resp: 64834

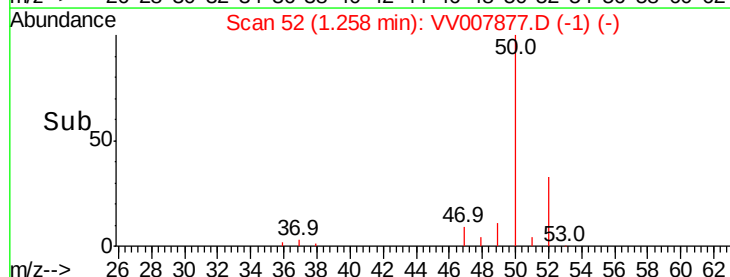
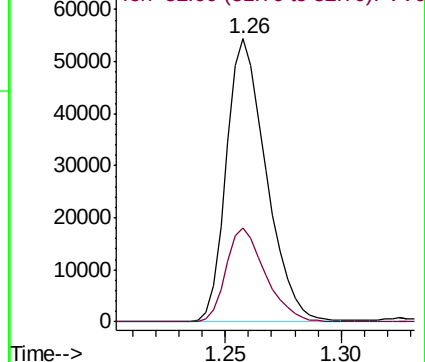
Ion Ratio Lower Upper

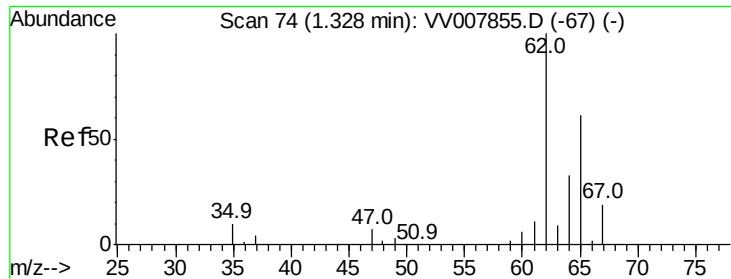
50 100

52 33.1 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV007855.D (-45) (-)





#5

Vinyl chloride

Concen: 48.572 ug/L

RT: 1.33 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

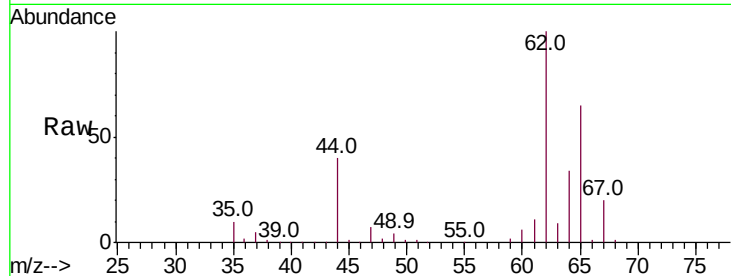
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 70763

Ion Ratio Lower Upper

62 100

64 34.0 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV007855.D (-67) (-)

Ion 64.00 (63.70 to 64.70): VV007855.D (-67) (-)

1.33

80000

60000

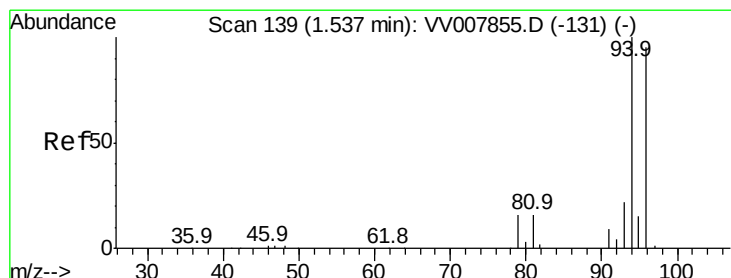
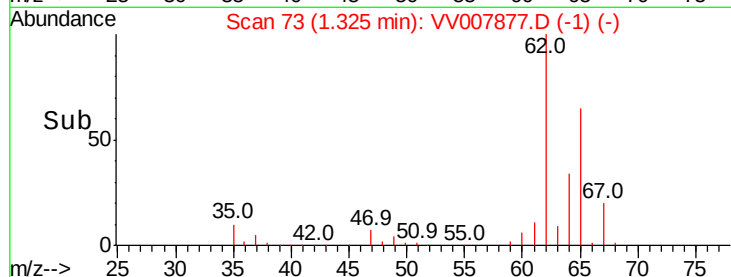
40000

20000

0

1.30 1.35 1.40

Time-->



#6

Bromomethane

Concen: 54.418 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV007877.D

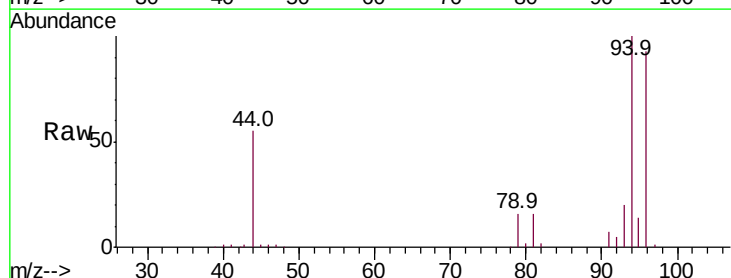
Acq: 26 Sep 2018 12:12

Tgt Ion: 94 Resp: 43904

Ion Ratio Lower Upper

94 100

96 92.6 66.9 124.3



Abundance Ion 94.00 (93.70 to 94.70): VV007855.D (-131) (-)

Ion 96.00 (95.70 to 96.70): VV007855.D (-131) (-)

1.53

40000

30000

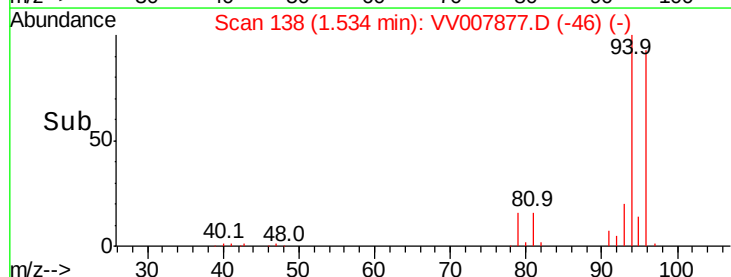
20000

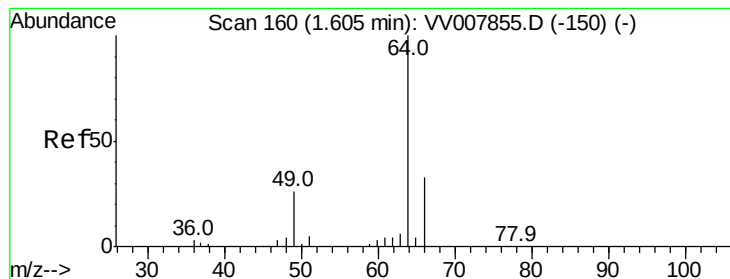
10000

0

1.50 1.55 1.60

Time-->





#8

Chloroethane

Concen: 49.197 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

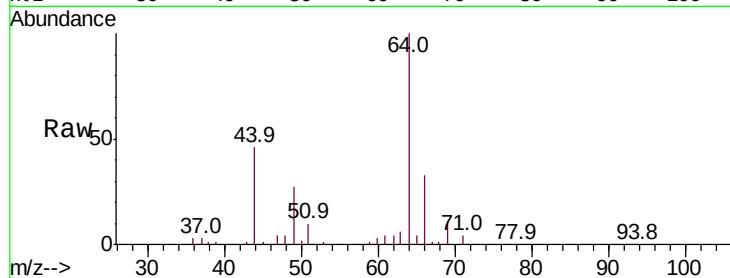
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 44706

Ion Ratio Lower Upper

64 100

66 33.2 23.4 43.6



Abundance Ion 64.00 (63.70 to 64.70): VV007855.D (-150) (-)

Ion 66.00 (65.70 to 66.70): VV007855.D (-150) (-)

1.60

40000

30000

20000

10000

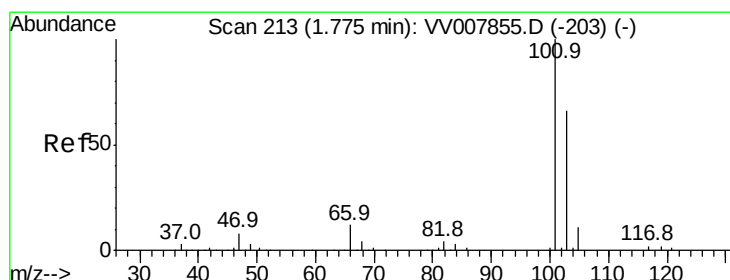
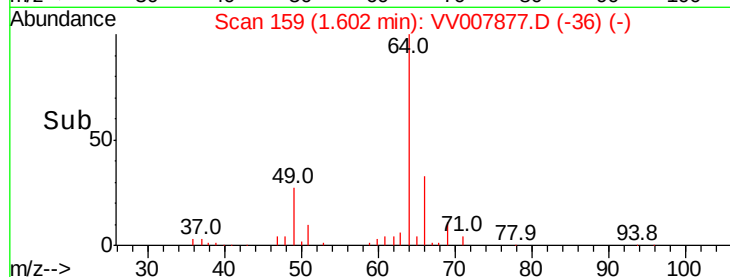
0

Time-->

1.55

1.60

1.65



#9

Trichlorofluoromethane

Concen: 50.340 ug/L

RT: 1.78 min Scan# 213

Delta R.T. 0.00 min

Lab File: VV007877.D

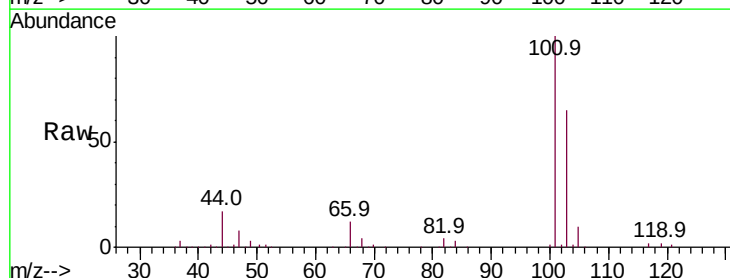
Acq: 26 Sep 2018 12:12

Tgt Ion:101 Resp: 122886

Ion Ratio Lower Upper

101 100

103 64.8 52.4 78.6



Abundance Ion 101.00 (100.70 to 101.70): VV007855.D (-203) (-)

Ion 103.00 (102.70 to 103.70): VV007855.D (-203) (-)

1.78

100000

80000

60000

40000

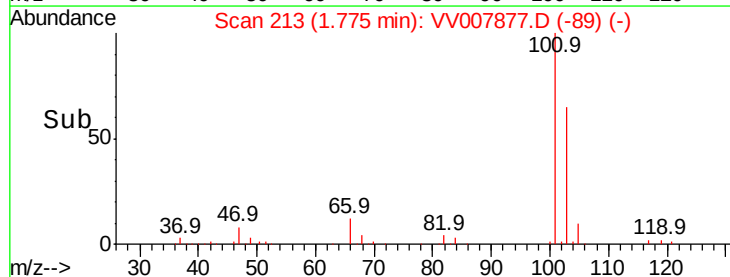
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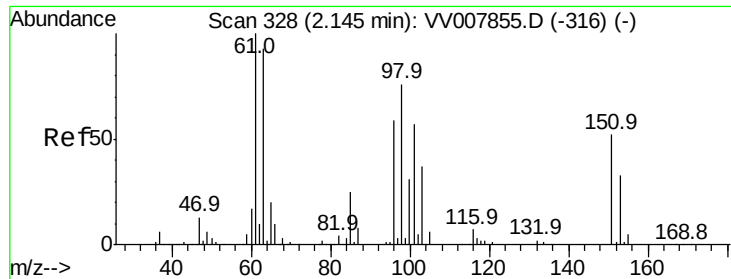
0

Time-->

1.75

1.80





#10

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

Concen: 51.330 ug/L

RT: 2.15 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

Instrument :

MSVOA_V

ClientSampleId :

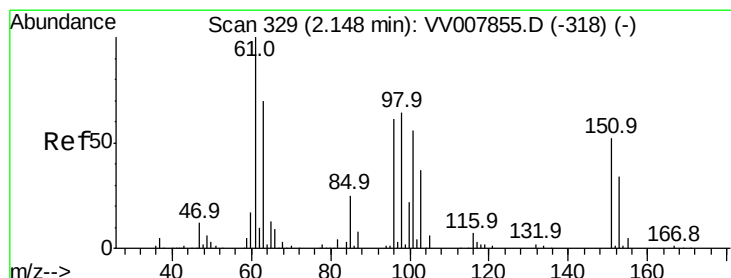
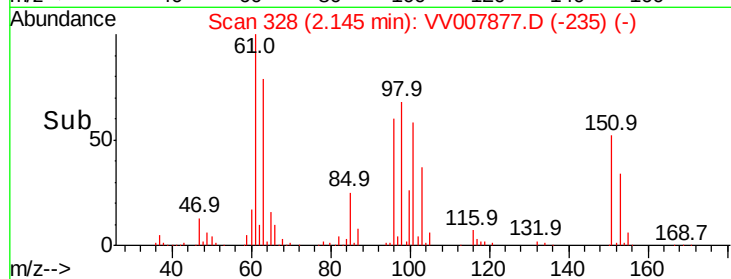
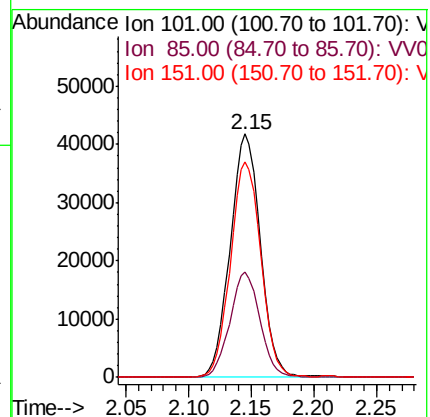
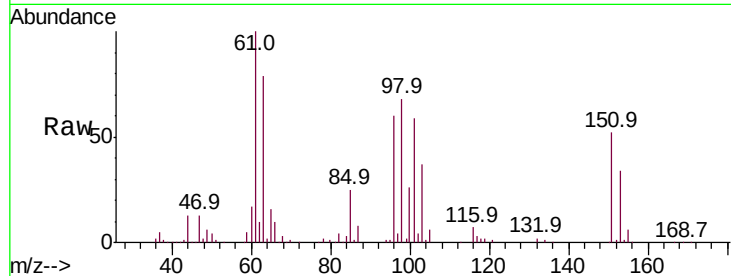
Tot Ion:101 Resp: 70027

Ion Ratio Lower Upper

101 100

85 42.9 34.2 51.2

151 88.8 69.7 104.5



#12

1,1-Dichloroethene

Concen: 50.286 ug/L

RT: 2.15 min Scan# 328

Delta R.T. -0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

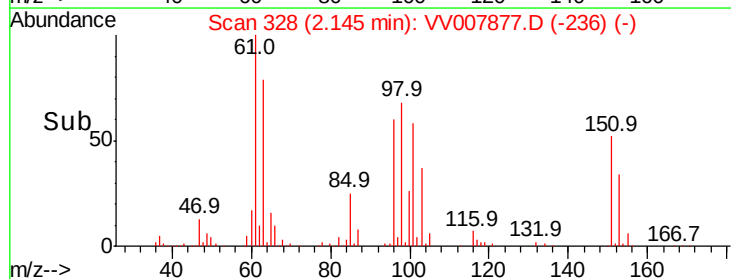
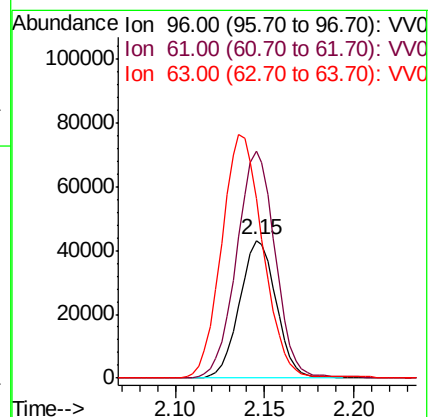
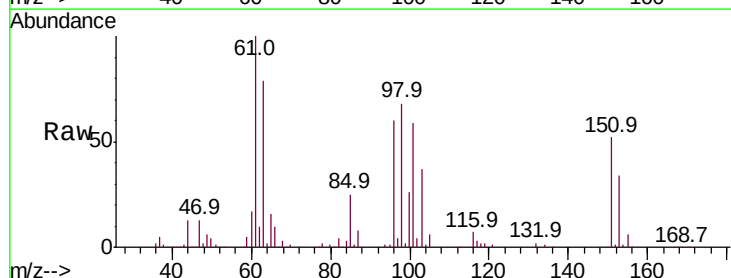
Tgt Ion: 96 Resp: 61564

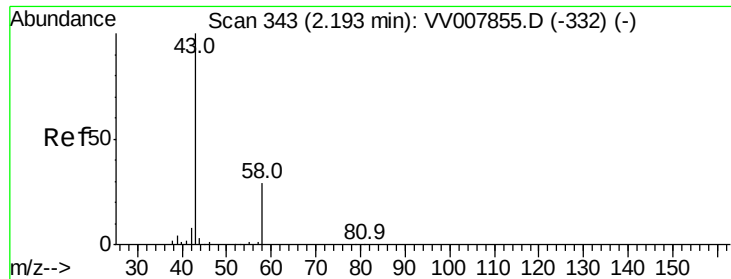
Ion Ratio Lower Upper

96 100

61 165.5 116.1 215.7

63 130.5 86.5 160.7





#13

Acetone

Concen: 99.551 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

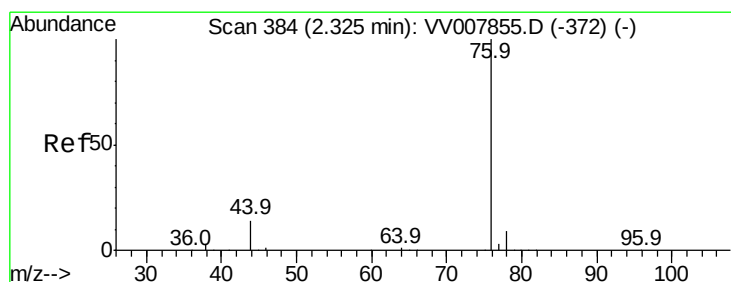
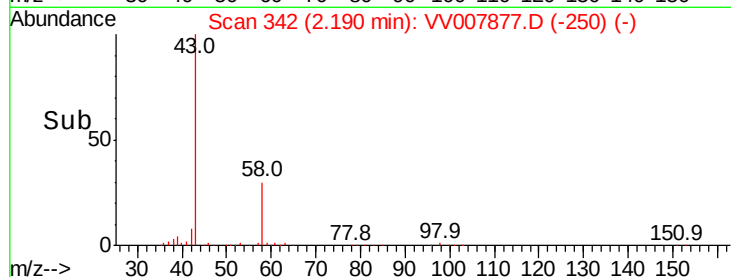
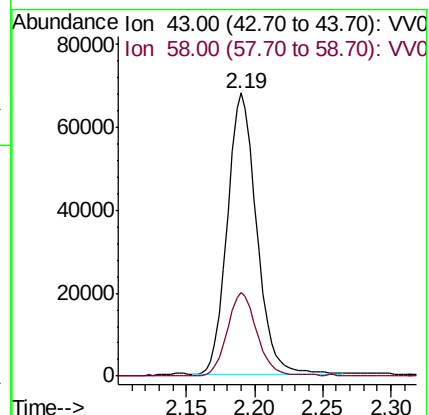
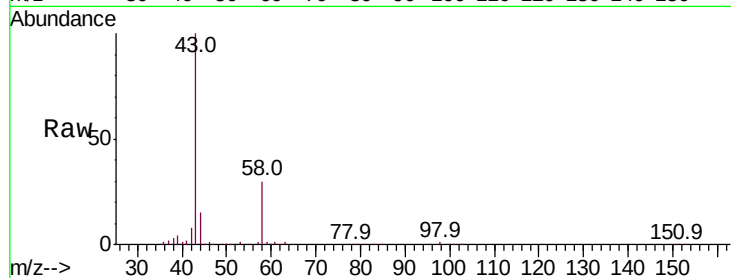
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 100821

Ion Ratio Lower Upper

43 100

58 29.8 0.0 59.4



#14

Carbon disulfide

Concen: 49.514 ug/L

RT: 2.32 min Scan# 383

Delta R.T. -0.00 min

Lab File: VV007877.D

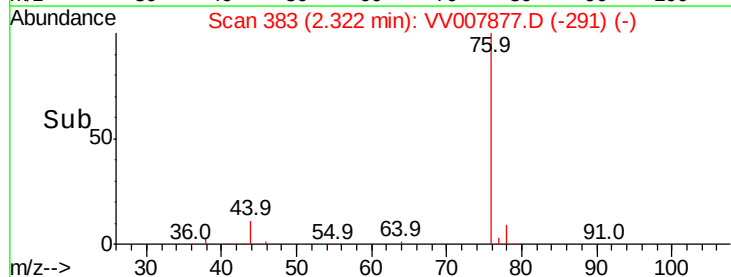
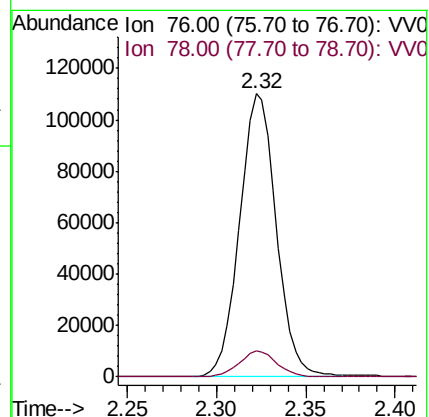
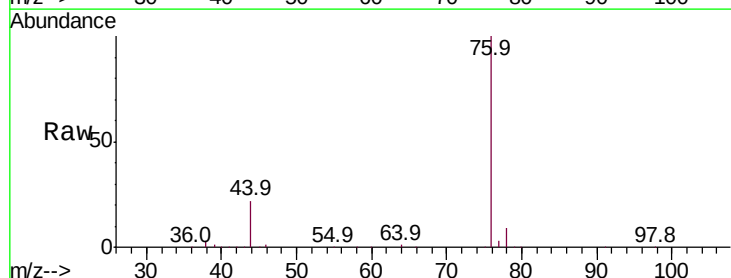
Acq: 26 Sep 2018 12:12

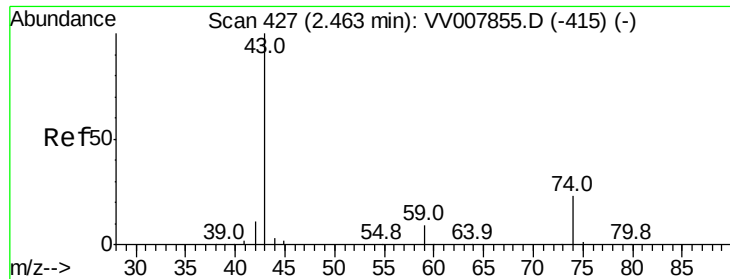
Tgt Ion: 76 Resp: 158154

Ion Ratio Lower Upper

76 100

78 9.2 7.6 11.4

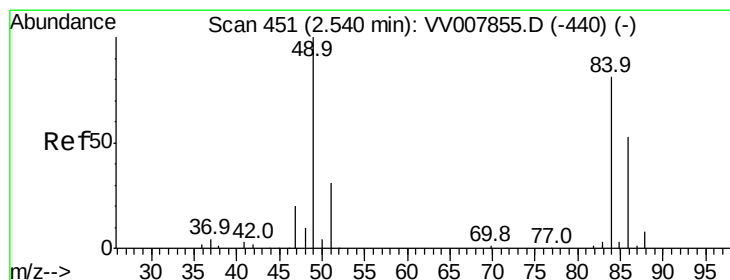
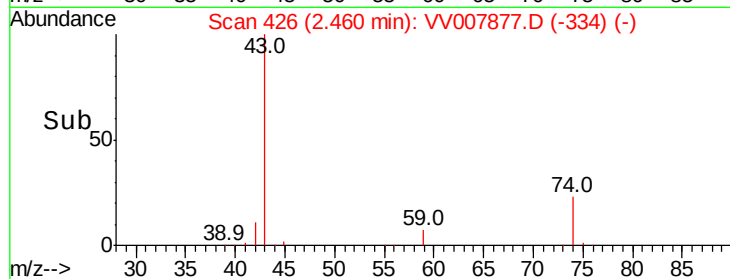
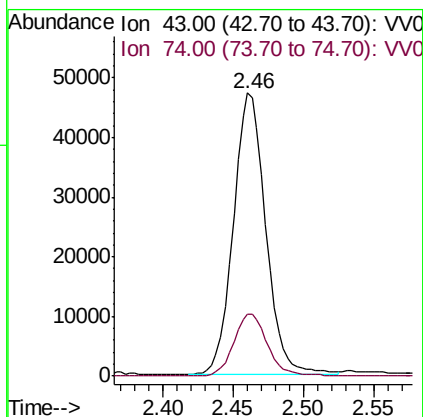
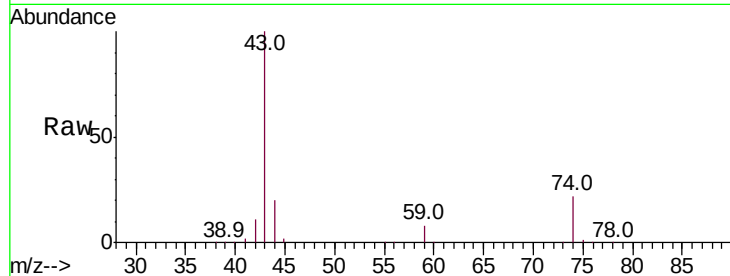




#15
Methvl Acetate
Concen: 50.887 ug/L
RT: 2.46 min Scan# 426
Delta R.T. -0.00 min
Lab File: VV007877.D
Acq: 26 Sep 2018 12:12

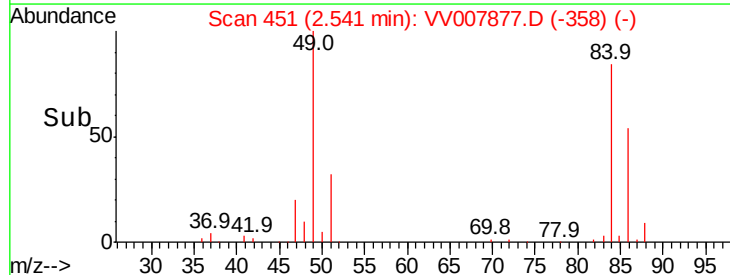
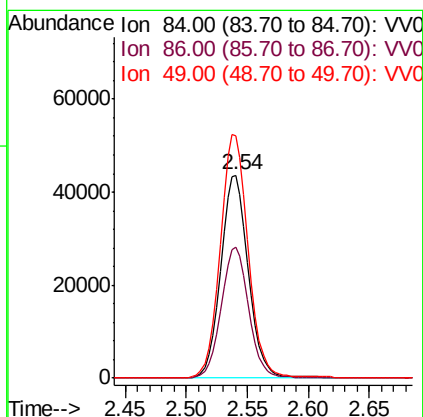
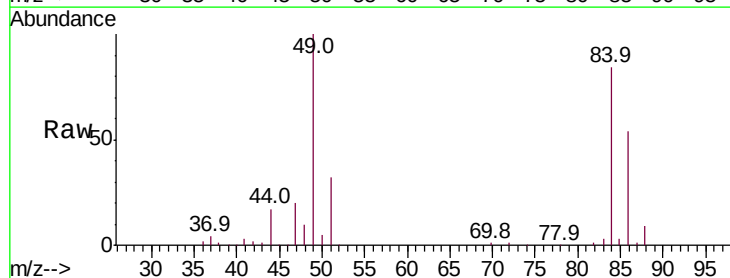
Instrument :
MSVOA_V
ClientSampled :

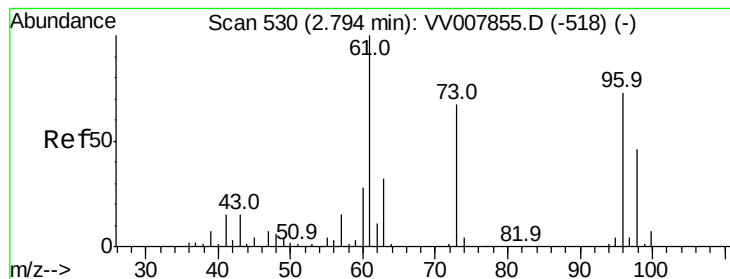
Tot Ion: 43 Resp: 75602
Ion Ratio Lower Upper
43 100
74 22.7 18.2 27.4



#16
Methylene chloride
Concen: 51.368 ug/L
RT: 2.54 min Scan# 451
Delta R.T. 0.00 min
Lab File: VV007877.D
Acq: 26 Sep 2018 12:12

Tgt Ion: 84 Resp: 69591
Ion Ratio Lower Upper
84 100
86 64.4 44.4 82.4
49 119.5 86.8 161.2





#17

trans-1,2-Dichloroethene

Concen: 50.551 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

Instrument :
MSVOA_V
ClientSampleId :

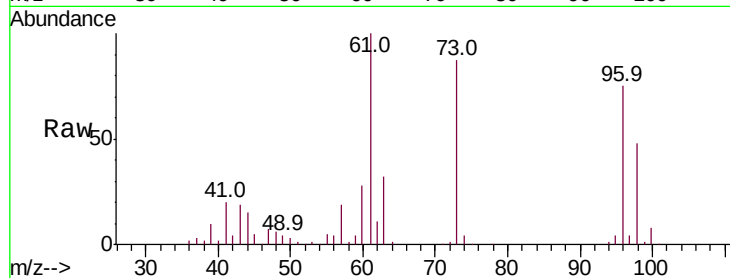
Tot Ion: 96 Resp: 66027

Ion Ratio Lower Upper

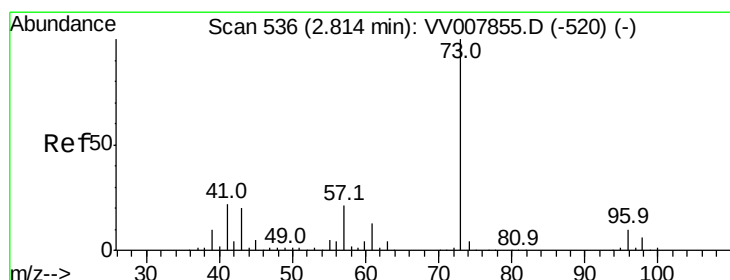
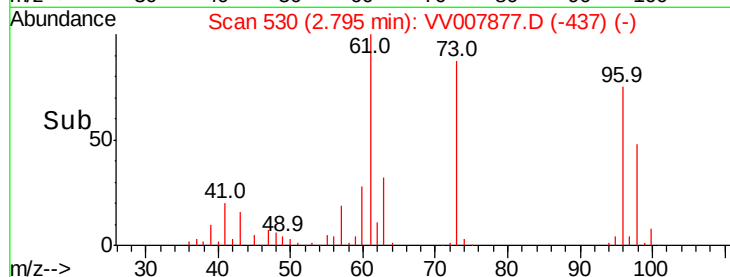
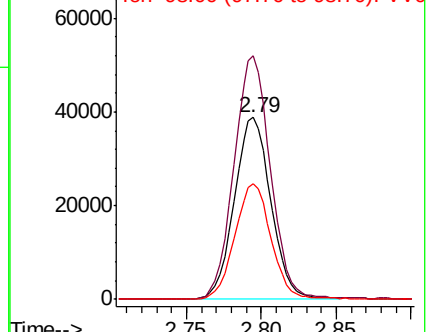
96 100

61 133.9 96.8 179.8

98 63.8 44.9 83.3



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 50.916 ug/L

RT: 2.81 min Scan# 535

Delta R.T. -0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

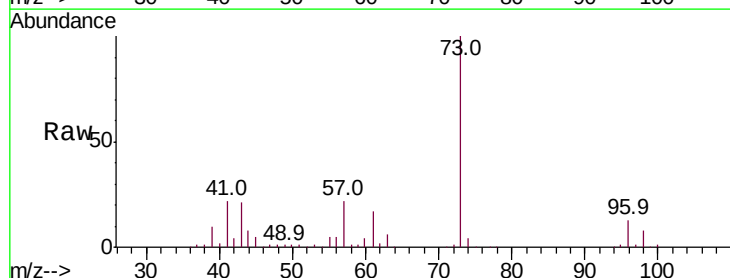
Tgt Ion: 73 Resp: 207212

Ion Ratio Lower Upper

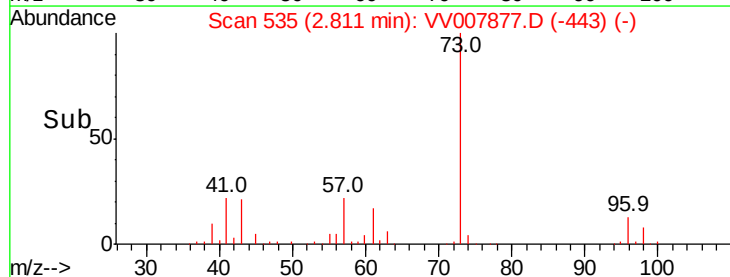
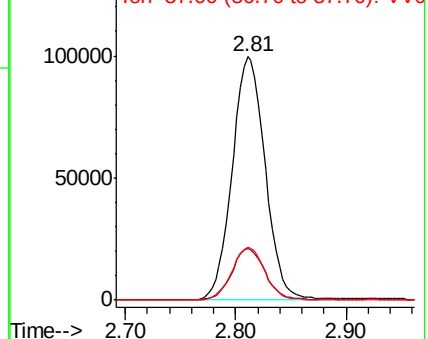
73 100

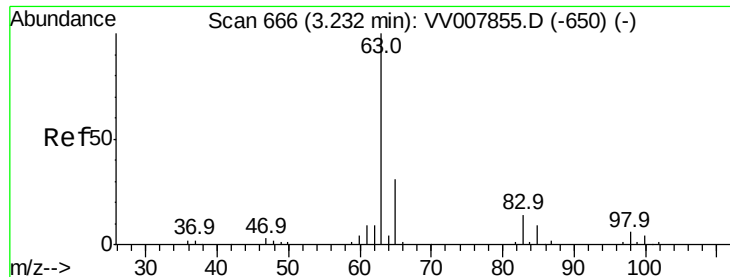
43 21.1 16.2 24.4

57 21.7 17.1 25.7



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

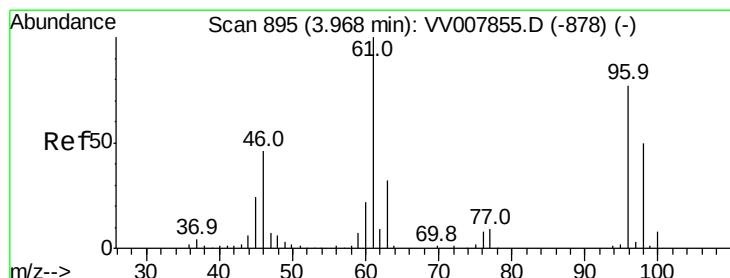
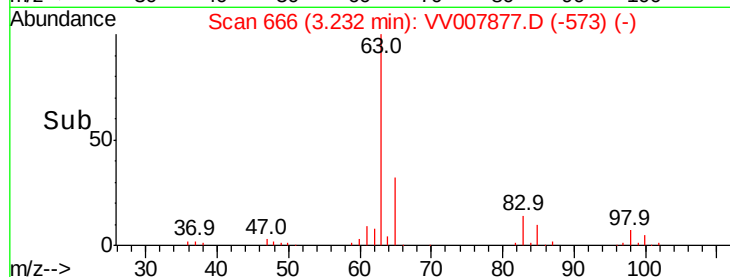
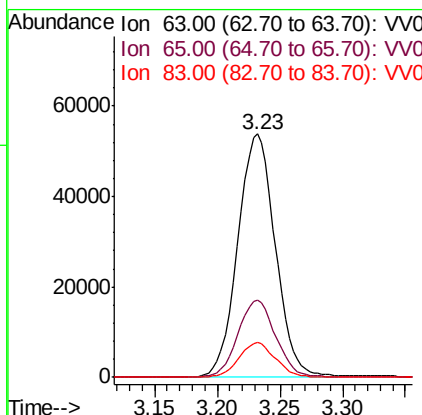
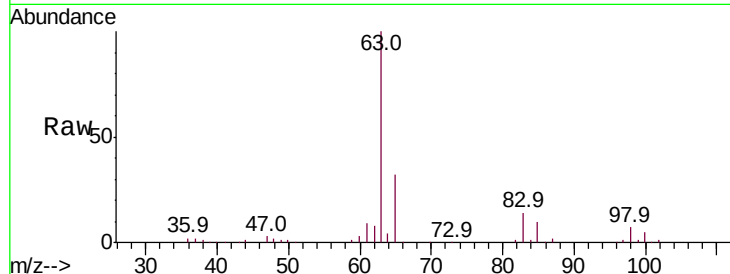




#19
 1,1-Dichloroethane
 Concen: 50.055 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.00 min
 Lab File: VV007877.D
 Acq: 26 Sep 2018 12:12

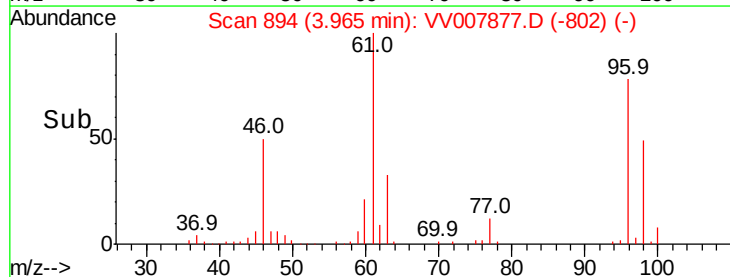
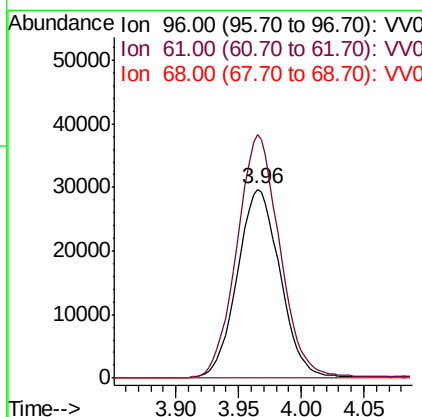
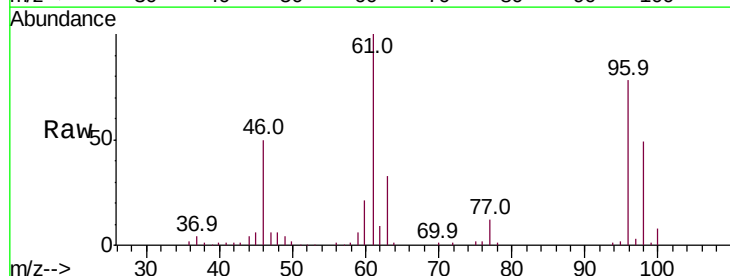
Instrument :
 MSVOA_V
 ClientSampleId :

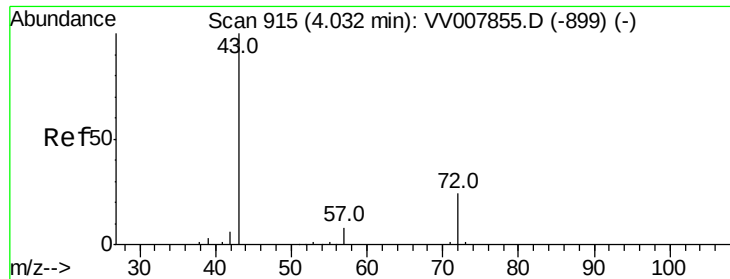
Tot Ion	63	Resp	112197
Ion Ratio	Lower	Upper	
63	100		
65	31.9	21.9	40.7
83	14.4	9.7	18.1



#20
 cis-1,2-Dichloroethene
 Concen: 49.894 ug/L
 RT: 3.96 min Scan# 894
 Delta R.T. -0.00 min
 Lab File: VV007877.D
 Acq: 26 Sep 2018 12:12

Tgt Ion	96	Resp	70613
Ion Ratio	Lower	Upper	
96	100		
61	128.7	92.6	172.0
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 100.742 ug/L

RT: 4.03 min Scan# 914

Delta R.T. -0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

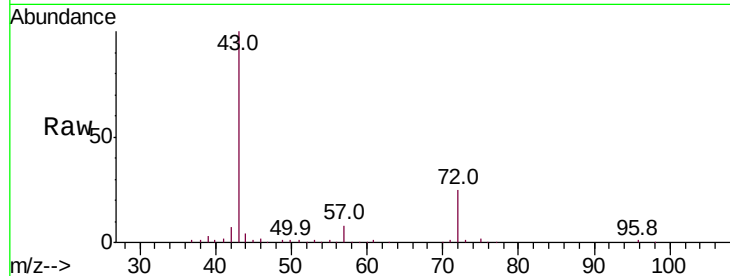
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 116915

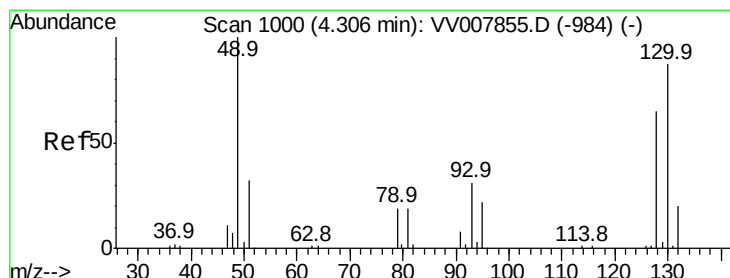
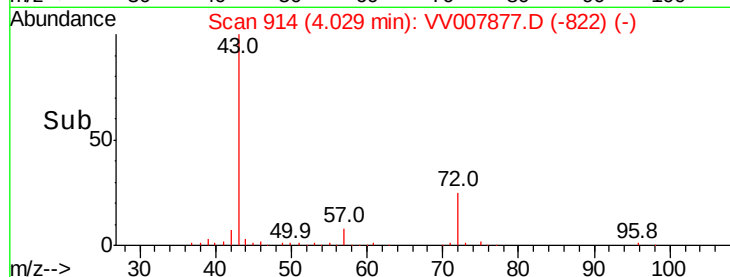
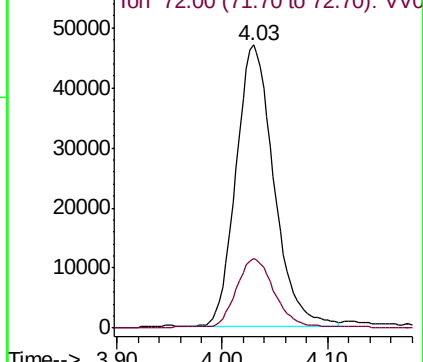
Ion Ratio Lower Upper

43 100

72 24.7 12.4 37.2



Abundance Ion 43.00 (42.70 to 43.70): VV007855.D (-899) (-)



#23

Bromochloromethane

Concen: 51.264 ug/L

RT: 4.30 min Scan# 999

Delta R.T. -0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

Tgt Ion: 128 Resp: 37747

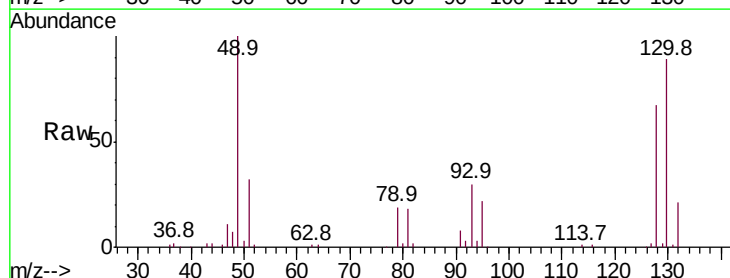
Ion Ratio Lower Upper

128 100

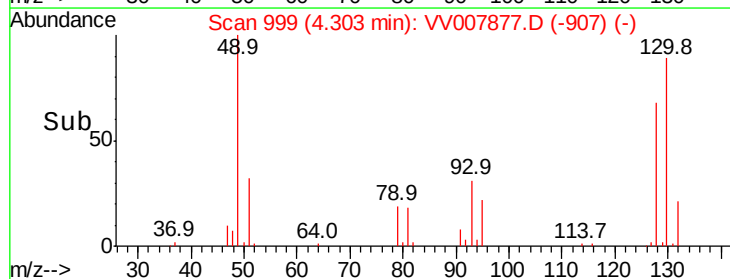
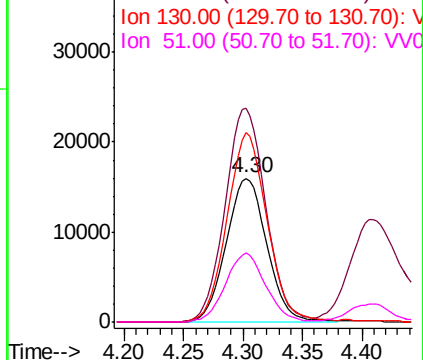
49 149.0 107.7 199.9

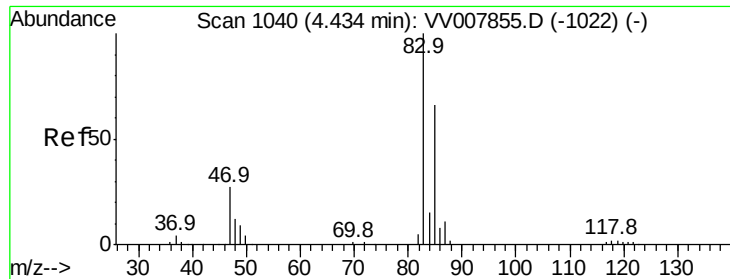
130 132.0 91.1 169.1

51 47.9 38.1 57.1



Abundance Ion 128.00 (127.70 to 128.70): VV007855.D (-984) (-)

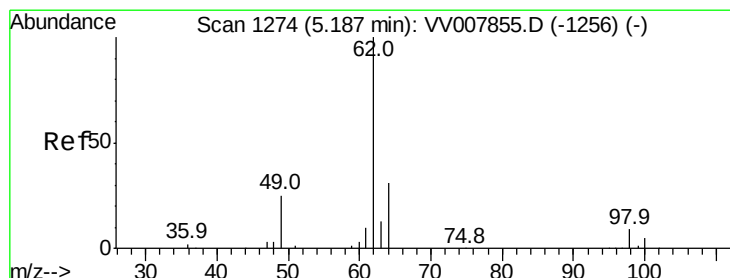
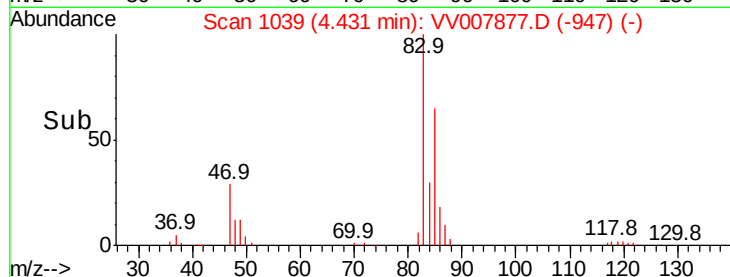
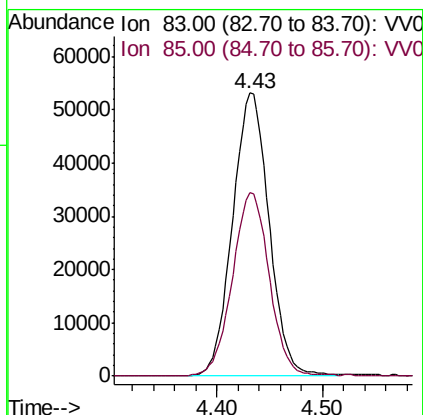
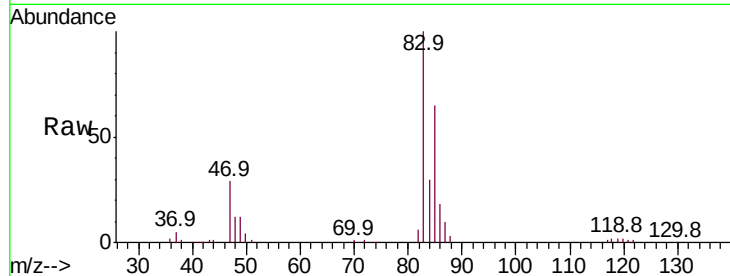




#25
Chloroform
Concen: 48.073 ug/L
RT: 4.43 min Scan# 1039
Delta R.T. -0.00 min
Lab File: VV007877.D
Acq: 26 Sep 2018 12:12

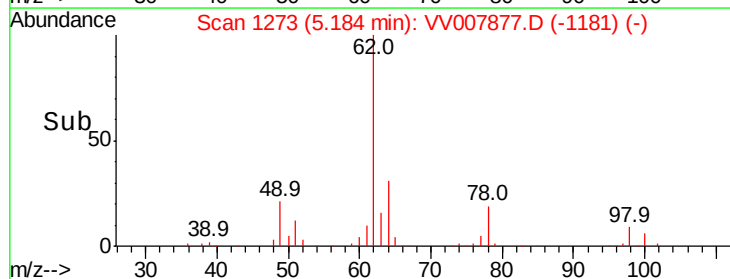
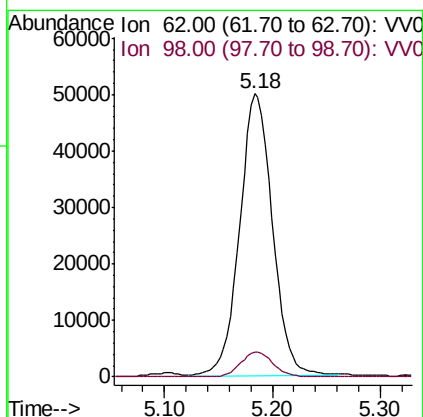
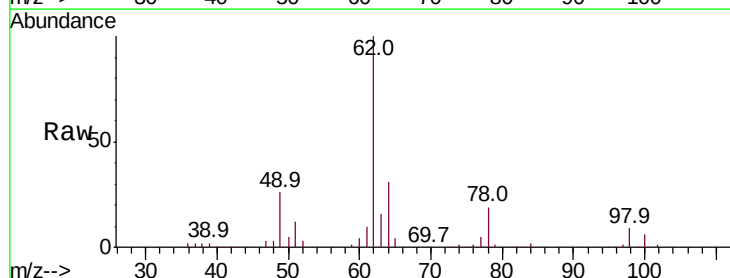
Instrument :
MSVOA_V
ClientSampled :

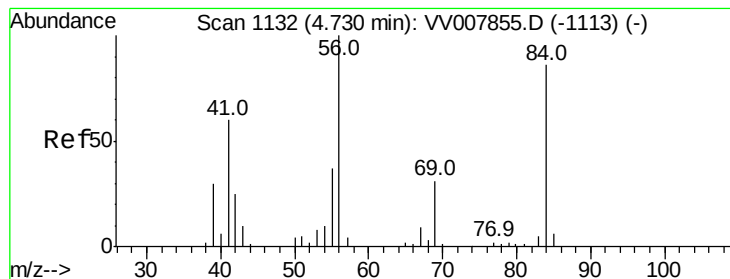
Tot Ion: 83 Resp: 127891
Ion Ratio Lower Upper
83 100
85 64.6 45.9 85.3



#27
1,2-Dichloroethane
Concen: 49.912 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. -0.00 min
Lab File: VV007877.D
Acq: 26 Sep 2018 12:12

Tgt Ion: 62 Resp: 105238
Ion Ratio Lower Upper
62 100
98 8.7 7.0 10.4





#29

Cyclohexane

Concen: 48.694 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

Instrument :
MSVOA_V
ClientSampleId :

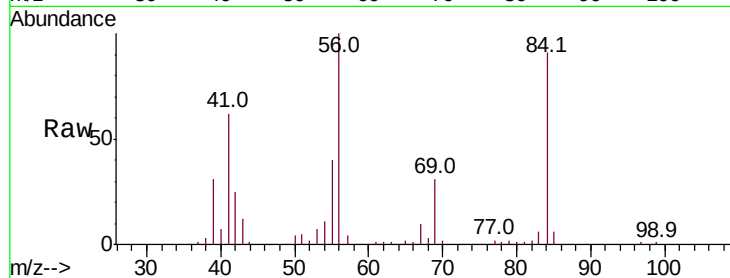
Tot Ion: 56 Resp: 103146

Ion Ratio Lower Upper

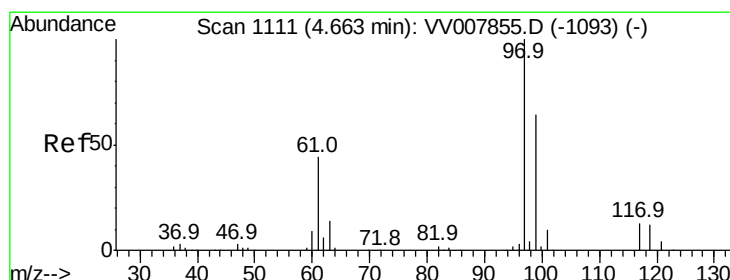
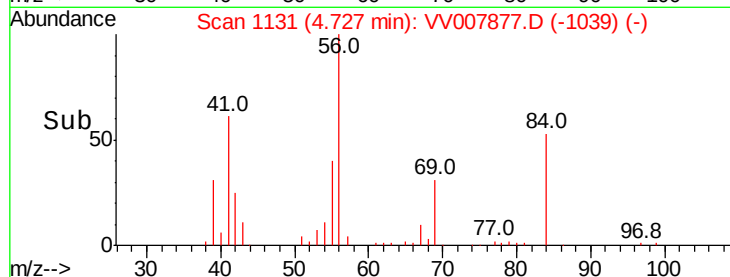
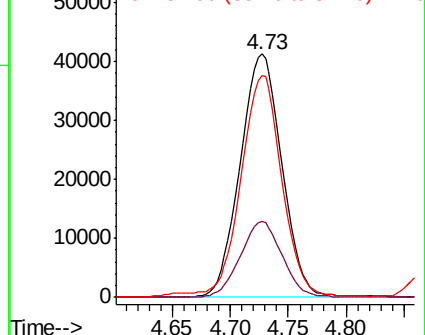
56 100

69 31.2 24.1 36.1

84 89.1 68.2 102.4



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



#30

1,1,1-Trichloroethane

Concen: 50.491 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. -0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

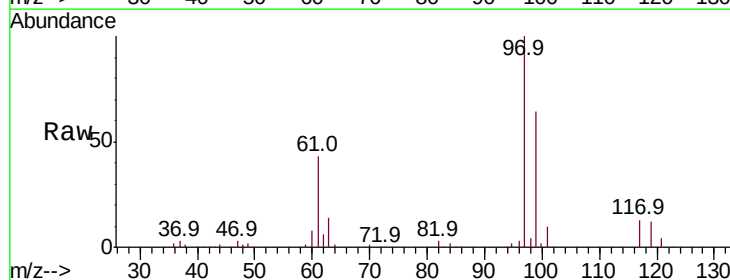
Tgt Ion: 97 Resp: 113272

Ion Ratio Lower Upper

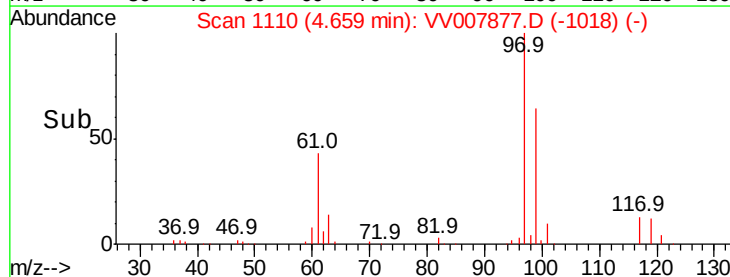
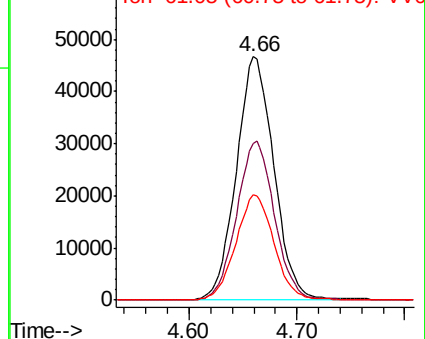
97 100

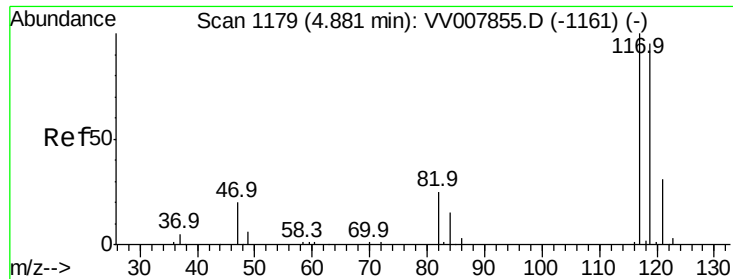
99 65.3 51.0 76.6

61 43.8 35.0 52.4



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 51.209 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

Instrument :

MSVOA_V

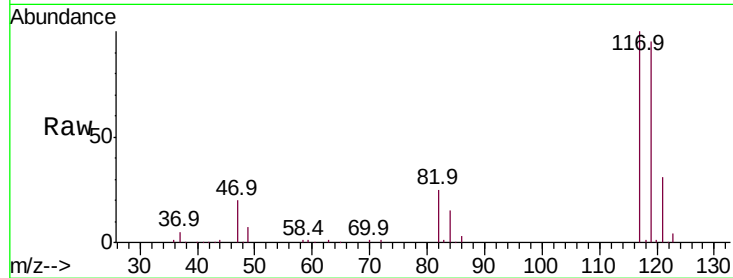
ClientSampleId :

Tot Ion:117 Resp: 101499

Ion Ratio Lower Upper

117 100

119 97.1 76.2 114.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

4.88

50000

40000

30000

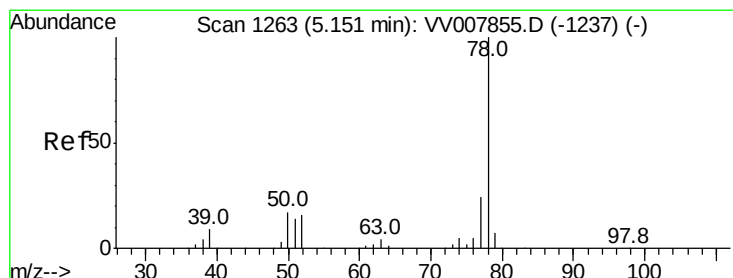
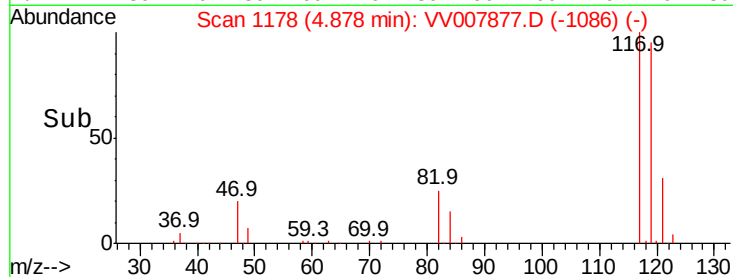
20000

10000

0

Time-->

4.80 4.90 5.00



#33

Benzene

Concen: 50.363 ug/L

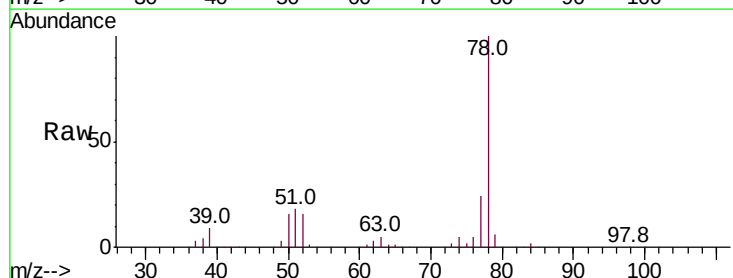
RT: 5.15 min Scan# 1263

Delta R.T. 0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

Tgt Ion: 78 Resp: 268252



Abundance Ion 78.00 (77.70 to 78.70): VV0

5.15

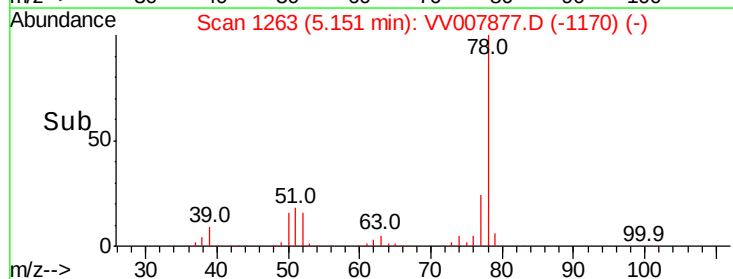
100000

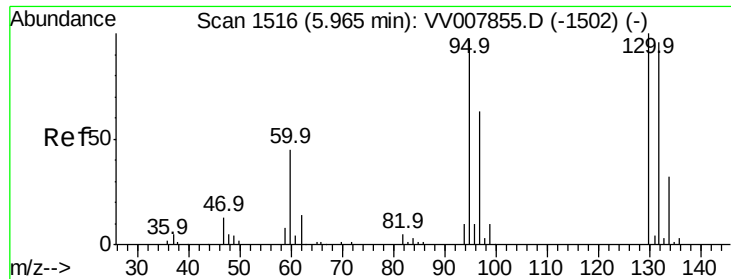
50000

0

Time-->

5.00 5.10 5.20





#34

Trichloroethene

Concen: 48.604 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. -0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 95 Resp: 71812

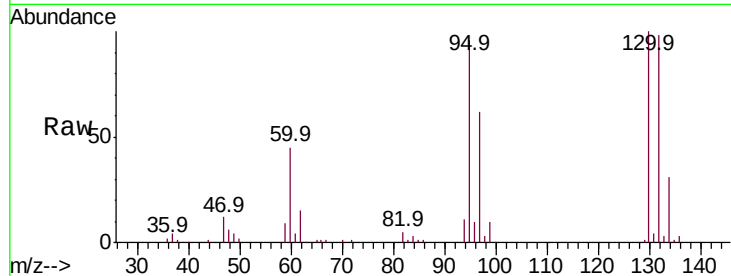
Ion Ratio Lower Upper

95 100

97 64.9 45.4 84.2

132 102.0 72.2 134.0

130 104.5 75.5 140.3

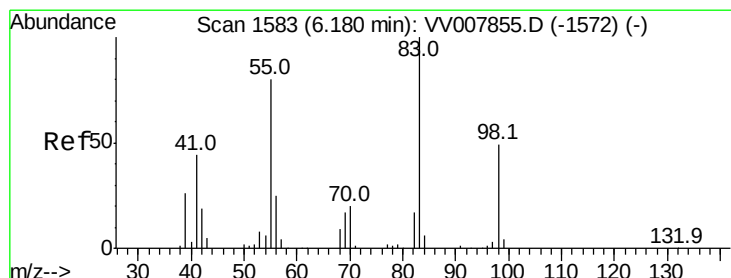
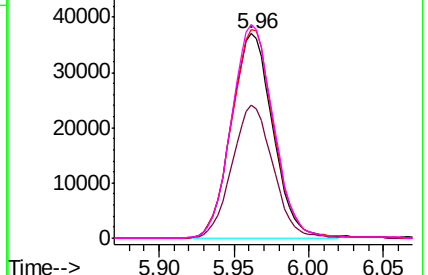
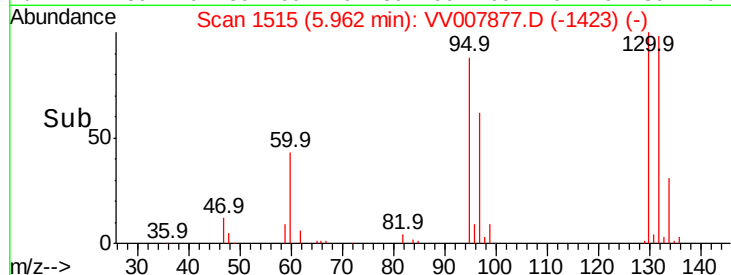


Abundance Ion 95.00 (94.70 to 95.70): VV007855.D (-1502) (-)

Ion 97.00 (96.70 to 97.70): VV007855.D (-1502) (-)

Ion 132.00 (131.70 to 132.70): VV007855.D (-1502) (-)

Ion 130.00 (129.70 to 130.70): VV007855.D (-1502) (-)



#35

Methylcyclohexane

Concen: 49.799 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

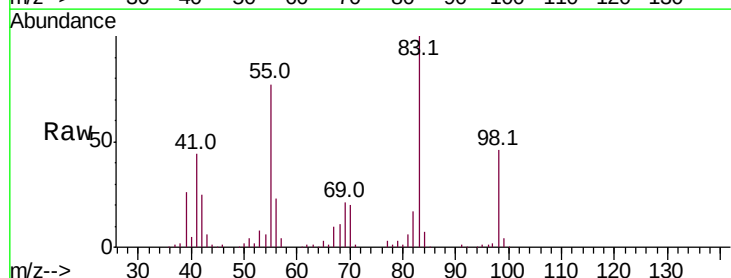
Tgt Ion: 83 Resp: 115430

Ion Ratio Lower Upper

83 100

55 78.4 62.6 94.0

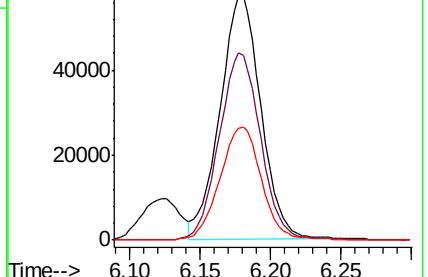
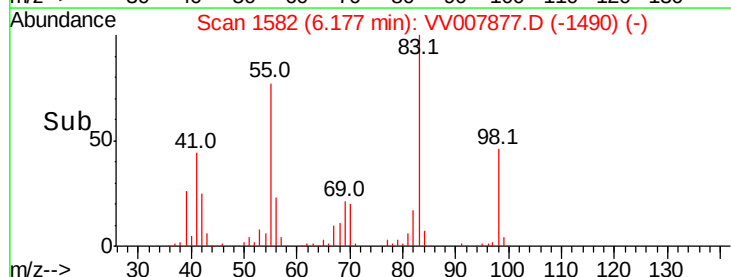
98 46.7 37.6 56.4

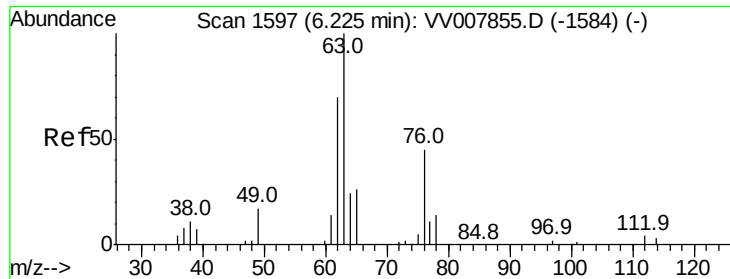


Abundance Ion 83.00 (82.70 to 83.70): VV007855.D (-1572) (-)

Ion 55.00 (54.70 to 55.70): VV007855.D (-1572) (-)

Ion 98.00 (97.70 to 98.70): VV007855.D (-1572) (-)





#37

1,2-Dichloropropane

Concen: 49.752 ug/L

RT: 6.23 min Scan# 1597

Delta R.T. 0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

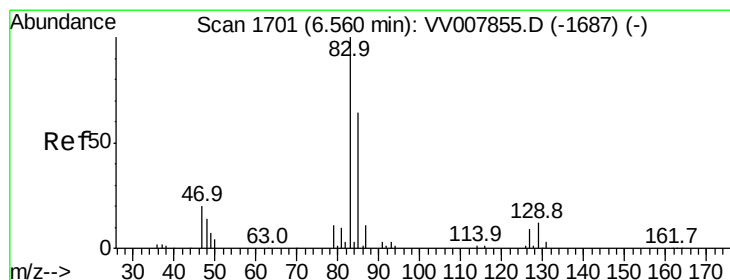
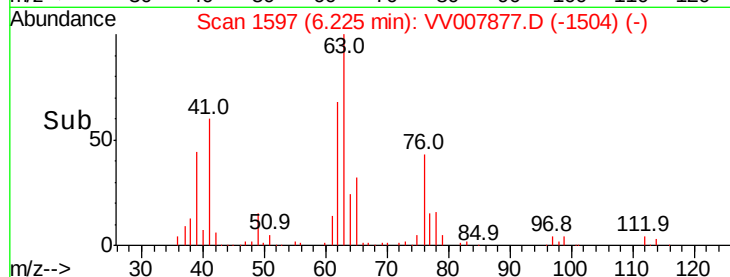
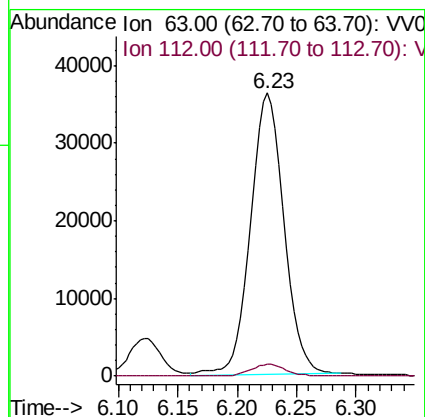
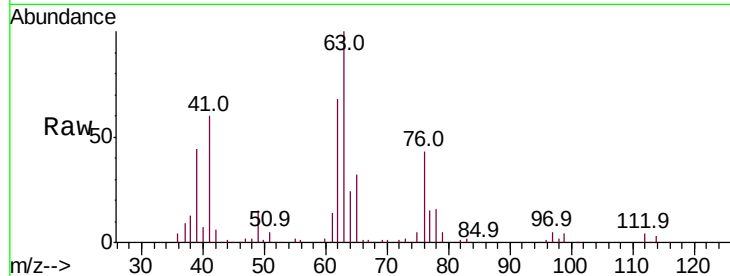
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 63 Resp: 70671

Ion Ratio Lower Upper

63 100

112 4.3 3.3 4.9



#38

Bromodichloromethane

Concen: 50.917 ug/L

RT: 6.56 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

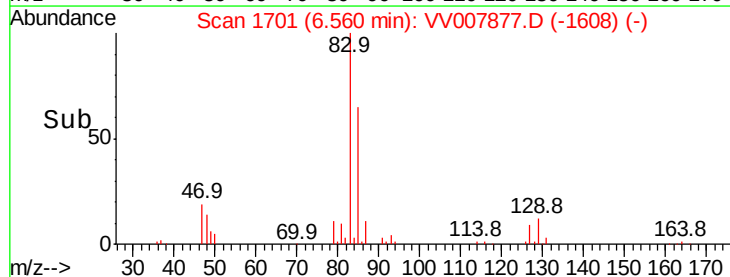
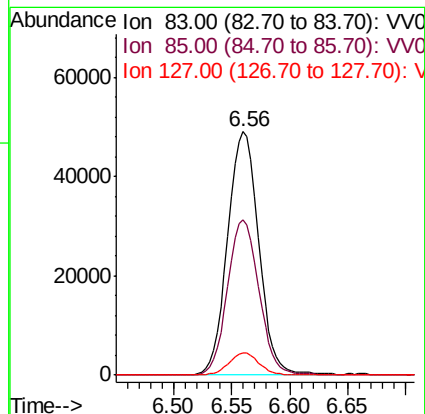
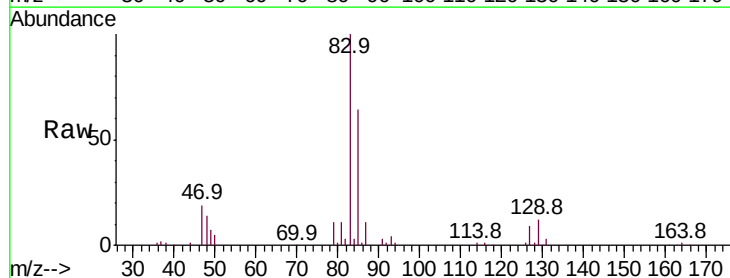
Tgt Ion: 83 Resp: 91538

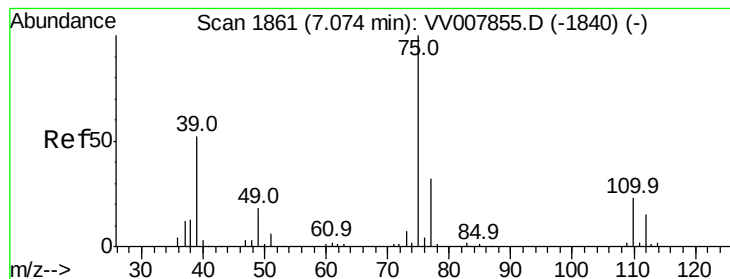
Ion Ratio Lower Upper

83 100

85 64.0 44.9 83.3

127 9.2 7.4 11.2



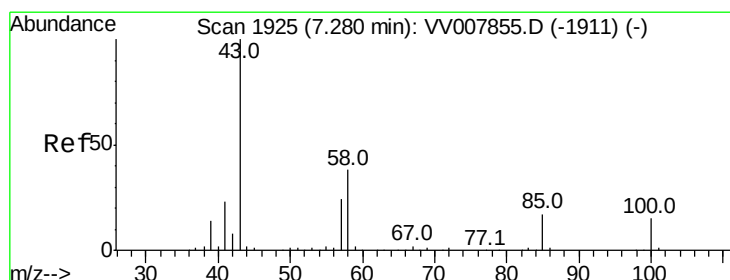
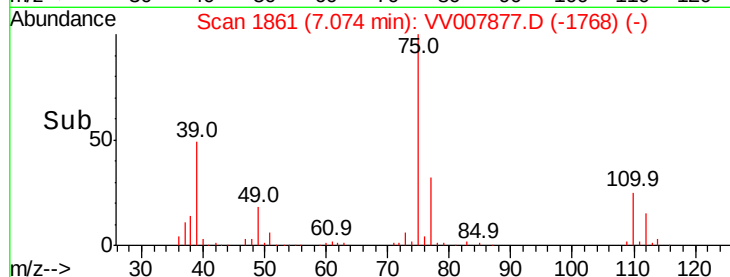
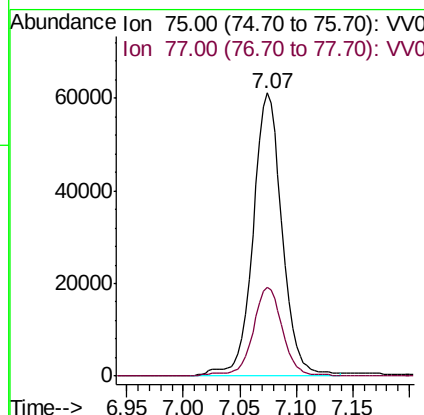
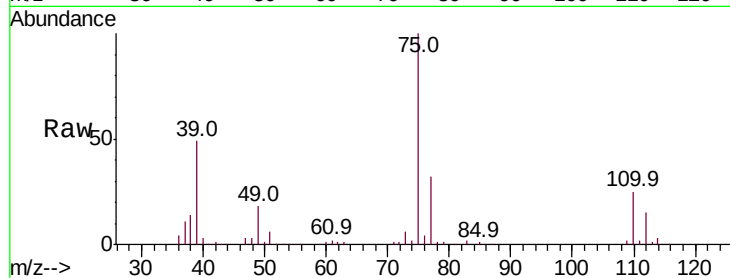


#39

cis-1,3-Dichloropropene
Concen: 53.086 ug/L
RT: 7.07 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VV007877.D
Acq: 26 Sep 2018 12:12

Instrument :
MSVOA_V
ClientSampleId :

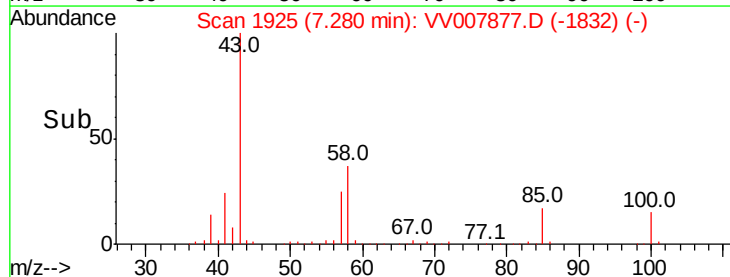
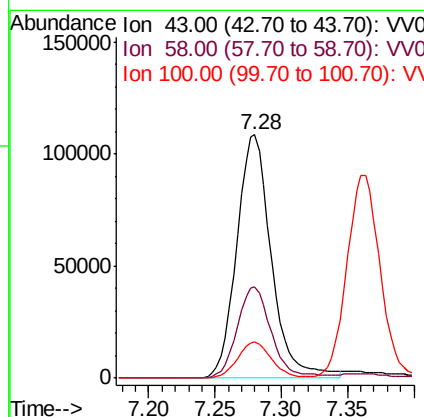
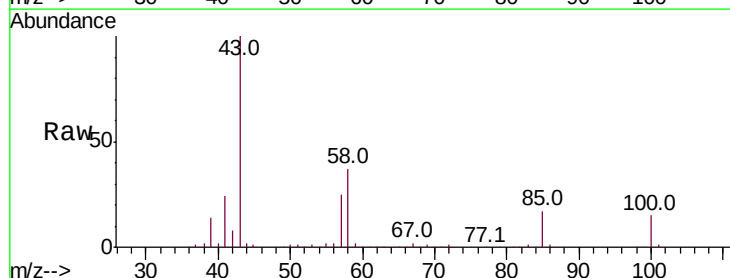
Tot Ion: 75 Resp: 109472
Ion Ratio Lower Upper
75 100
77 31.6 22.8 42.4

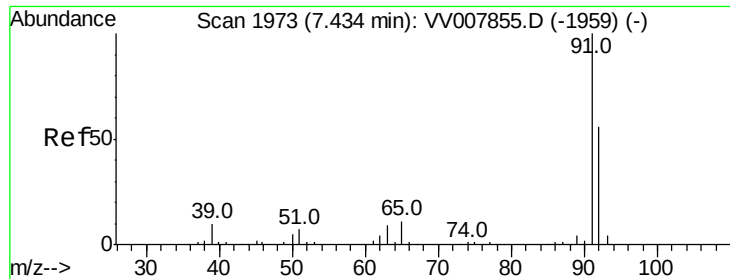


#40

4-Methyl-2-pentanone
Concen: 98.397 ug/L
RT: 7.28 min Scan# 1925
Delta R.T. 0.00 min
Lab File: VV007877.D
Acq: 26 Sep 2018 12:12

Tgt Ion: 43 Resp: 197515
Ion Ratio Lower Upper
43 100
58 36.9 29.3 43.9
100 14.4 11.0 16.4





#42

Toluene

Concen: 49.993 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

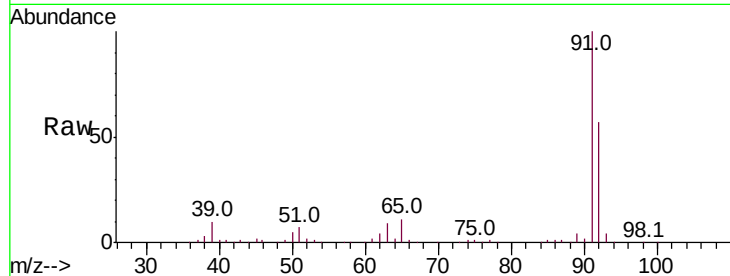
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 300013

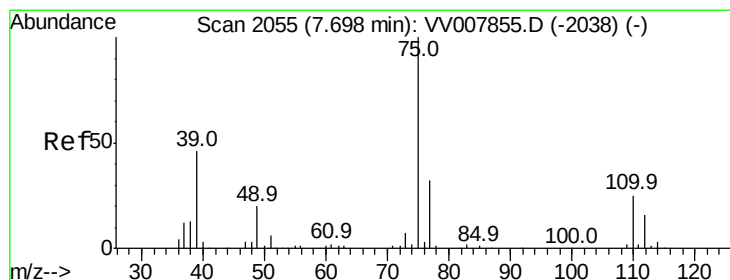
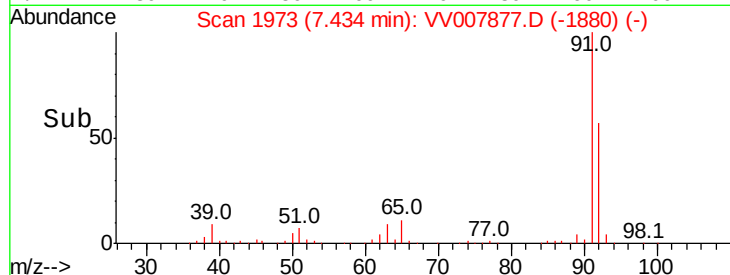
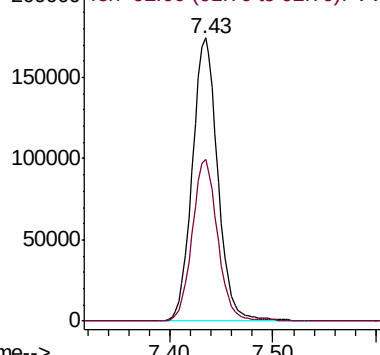
Ion Ratio Lower Upper

91 100

92 57.0 39.8 73.8



Abundance Ion 91.00 (90.70 to 91.70): VV0
Ion 92.00 (91.70 to 92.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 51.678 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.00 min

Lab File: VV007877.D

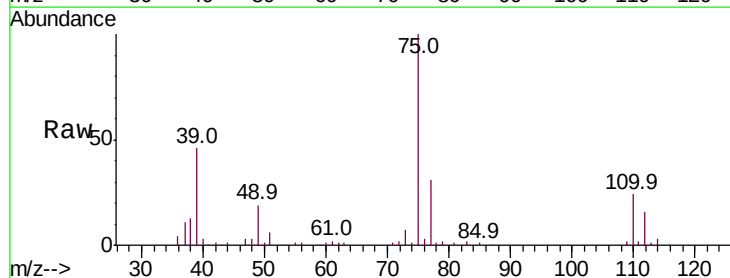
Acq: 26 Sep 2018 12:12

Tgt Ion: 75 Resp: 105921

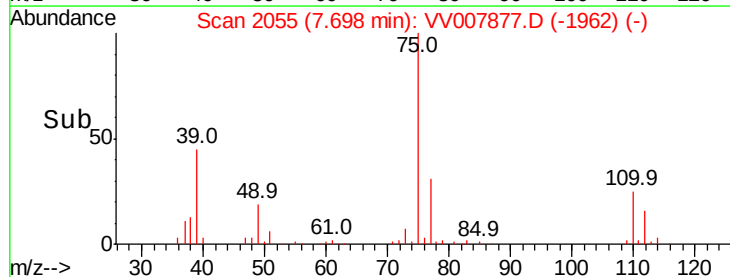
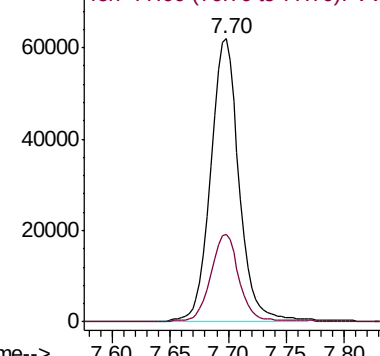
Ion Ratio Lower Upper

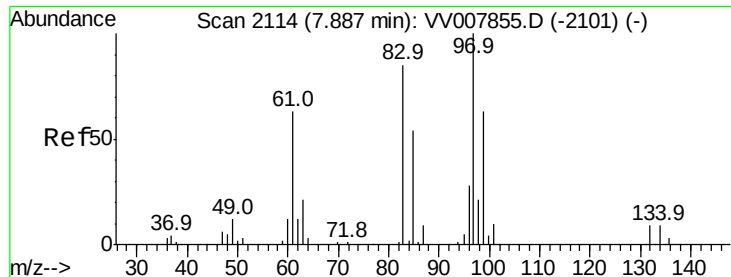
75 100

77 30.9 22.5 41.9



Abundance Ion 75.00 (74.70 to 75.70): VV0
Ion 77.00 (76.70 to 77.70): VV0

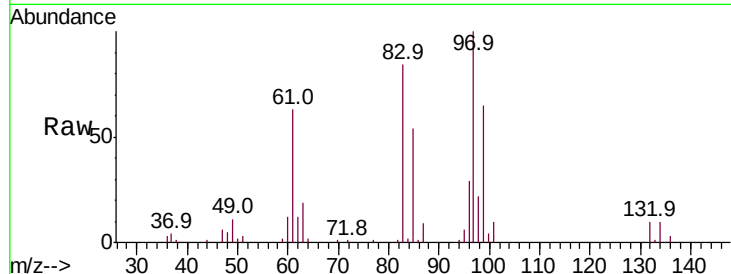




#45
1,1,2-Trichloroethane
Concen: 49.373 ug/L
RT: 7.89 min Scan# 2114
Delta R.T. 0.00 min
Lab File: VV007877.D
Acq: 26 Sep 2018 12:12

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:	97	Resp:	70084
Ion	Ratio	Lower	Upper
97	100		
99	64.6	43.7	81.1
83	83.6	59.6	110.8
85	54.3	37.7	70.1



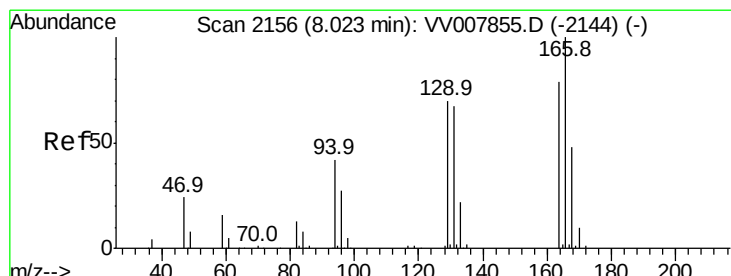
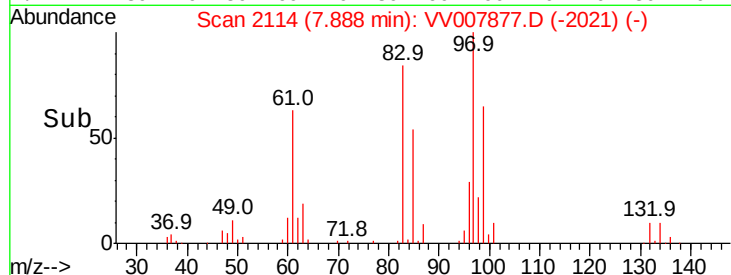
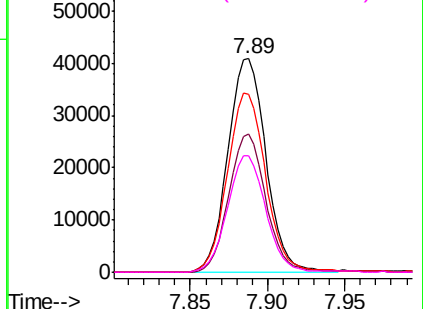
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

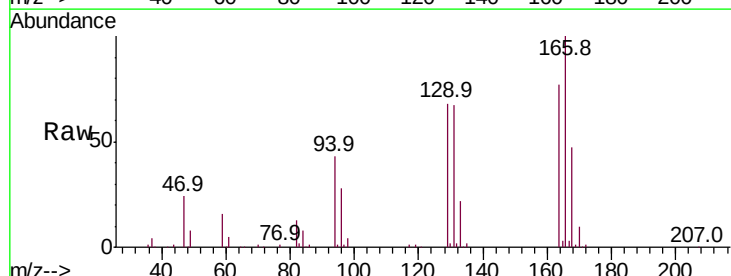
Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46
Tetrachloroethene
Concen: 48.179 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. -0.00 min
Lab File: VV007877.D
Acq: 26 Sep 2018 12:12

Tgt Ion:	164	Resp:	68401
Ion	Ratio	Lower	Upper
164	100		
129	89.4	60.9	113.1
131	87.0	58.8	109.2
166	130.6	88.8	164.8



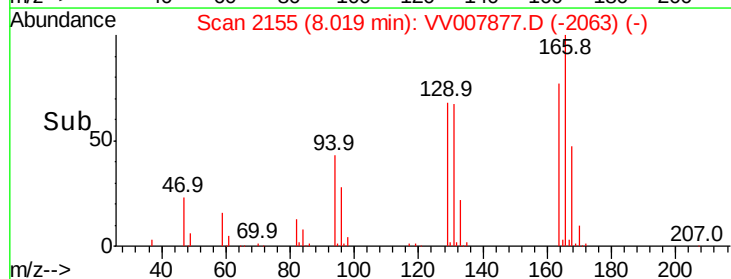
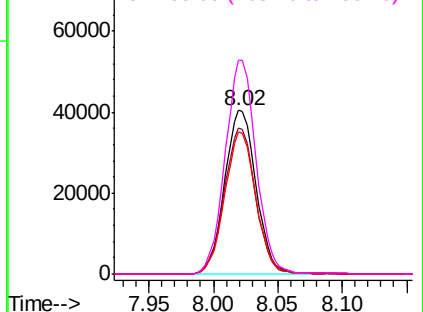
Abundance

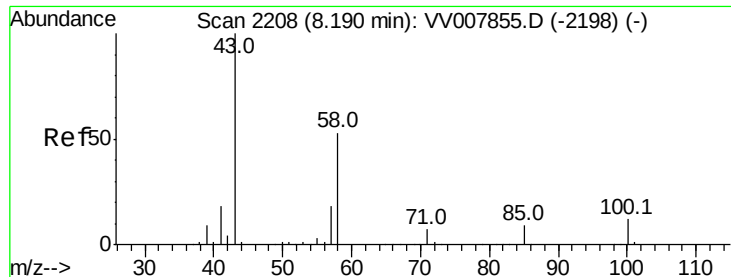
Ion 164.00 (163.70 to 164.70): V

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

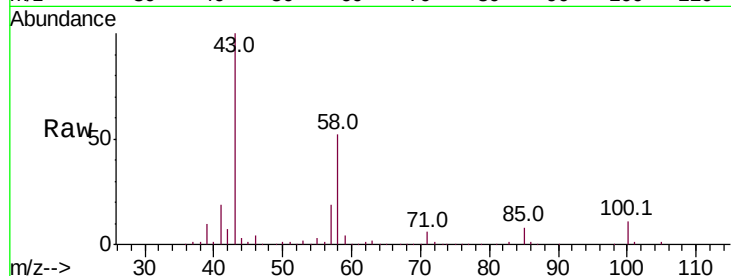




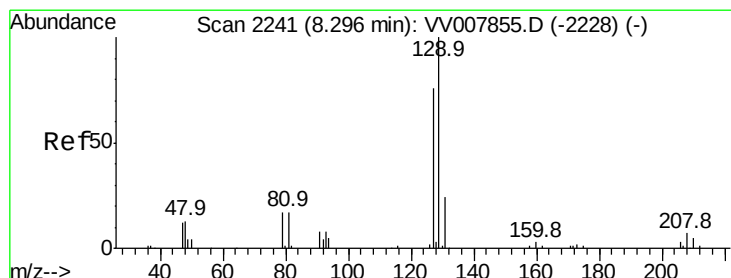
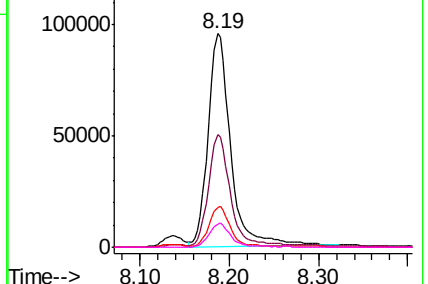
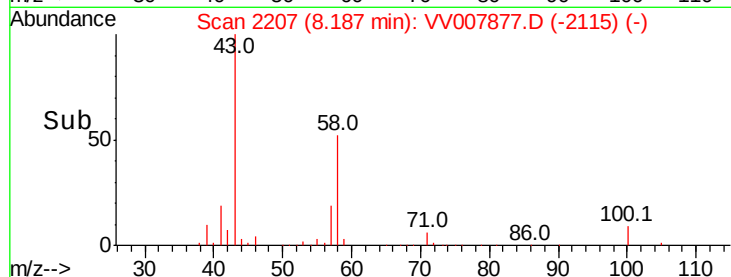
#48
2-Hexanone
Concen: 105.557 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. -0.00 min
Lab File: VV007877.D
Acq: 26 Sep 2018 12:12

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 167467
Ion Ratio Lower Upper
43 100
58 48.6 41.1 61.7
57 17.2 14.3 21.5
100 10.9 9.9 14.9

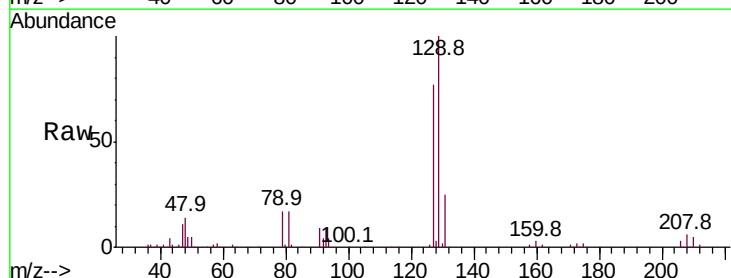


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

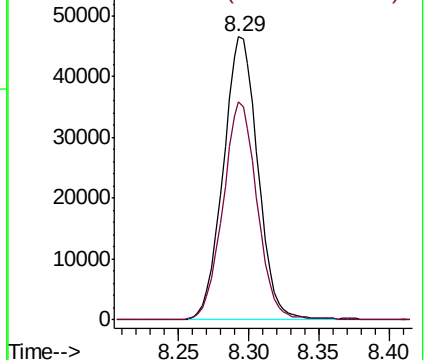
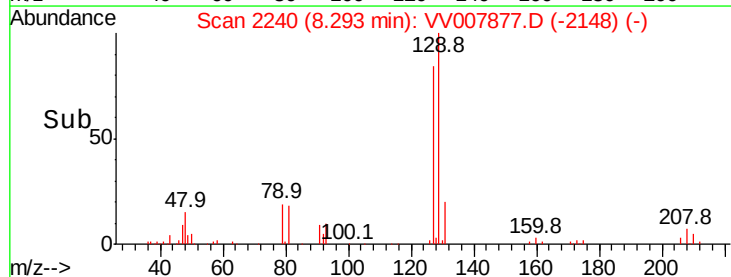


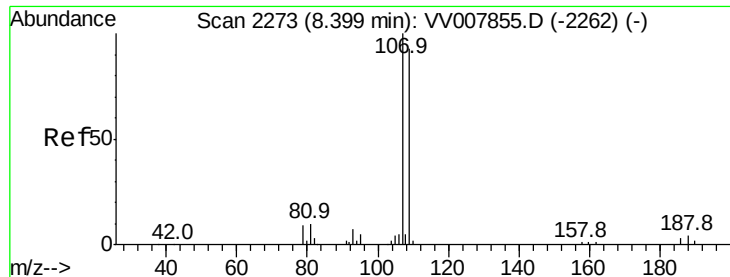
#49
Dibromochloromethane
Concen: 51.377 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. -0.00 min
Lab File: VV007877.D
Acq: 26 Sep 2018 12:12

Tgt Ion: 129 Resp: 79743
Ion Ratio Lower Upper
129 100
127 77.2 55.5 103.1



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

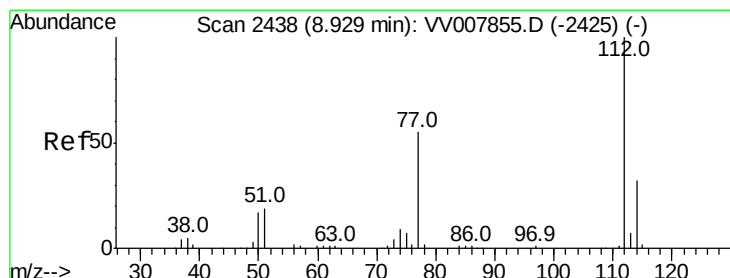
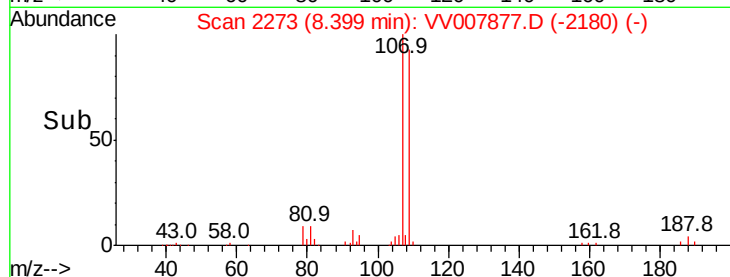
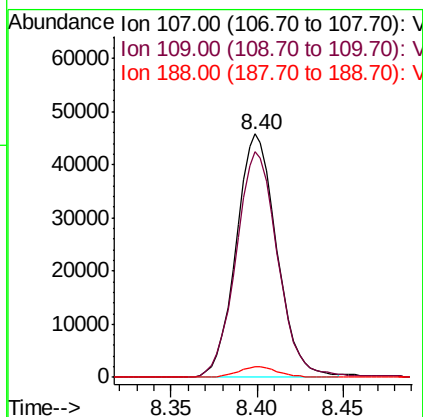
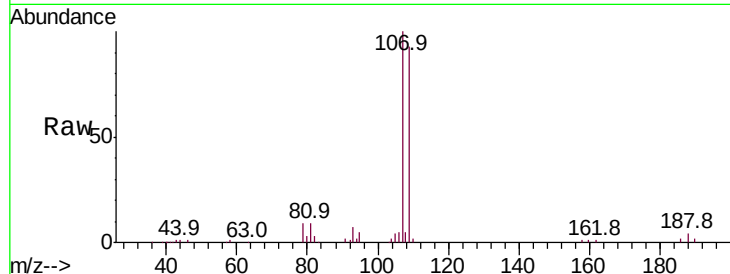




#50
 1,2-Dibromoethane
 Concen: 49.301 ug/L
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VV007877.D
 Acq: 26 Sep 2018 12:12

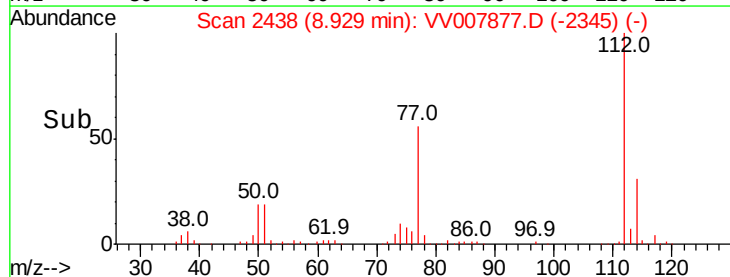
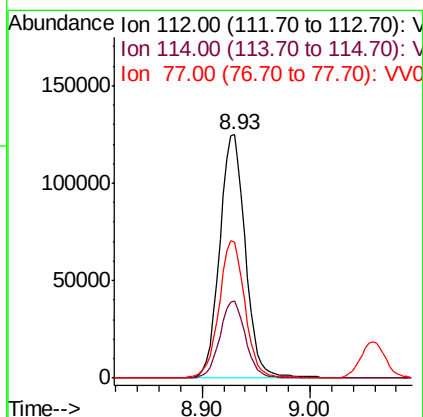
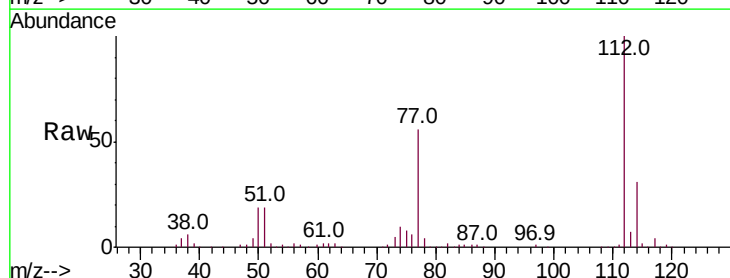
Instrument :
 MSVOA_V
 ClientSampleId :

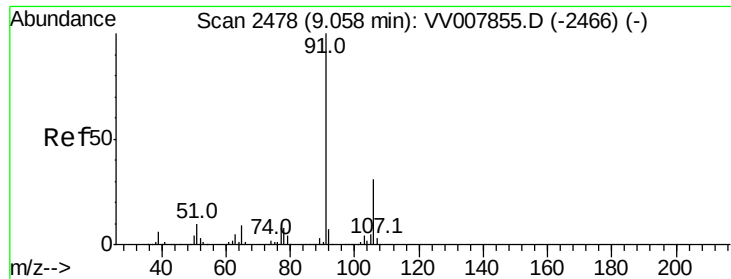
Tot Ion:107 Resp: 75248
 Ion Ratio Lower Upper
 107 100
 109 92.7 65.3 121.3
 188 4.5 3.5 5.3



#51
 Chlorobenzene
 Concen: 49.759 ug/L
 RT: 8.93 min Scan# 2438
 Delta R.T. 0.00 min
 Lab File: VV007877.D
 Acq: 26 Sep 2018 12:12

Tgt Ion:112 Resp: 206687
 Ion Ratio Lower Upper
 112 100
 114 31.5 22.3 41.5
 77 55.8 45.2 67.8





#52

Ethylbenzene

Concen: 50.103 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

Instrument :

MSVOA_V

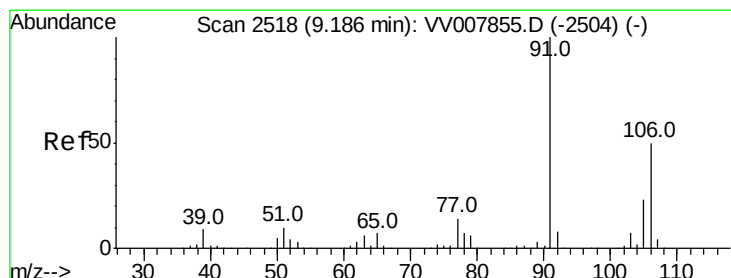
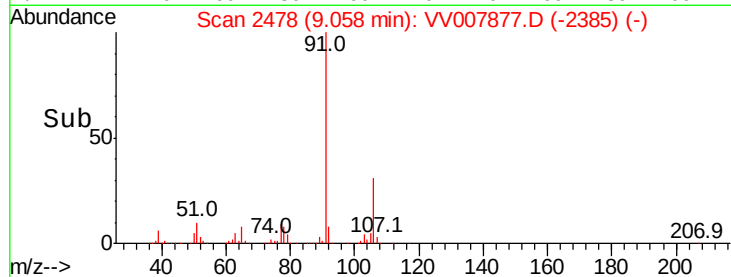
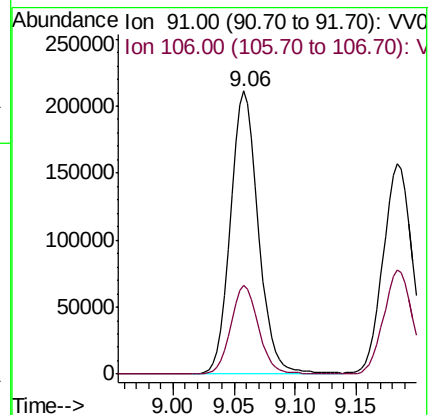
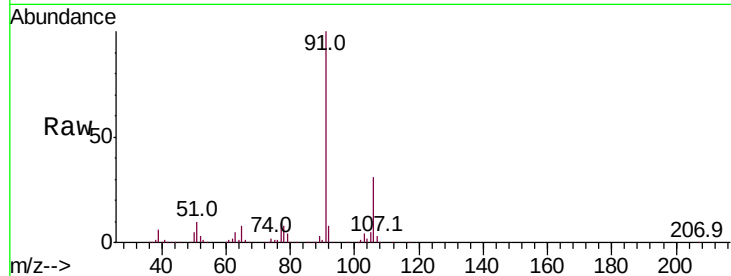
ClientSampleId :

Tot Ion: 91 Resp: 339637

Ion Ratio Lower Upper

91 100

106 31.3 21.9 40.7



#53

m,p-Xylene

Concen: 50.171 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV007877.D

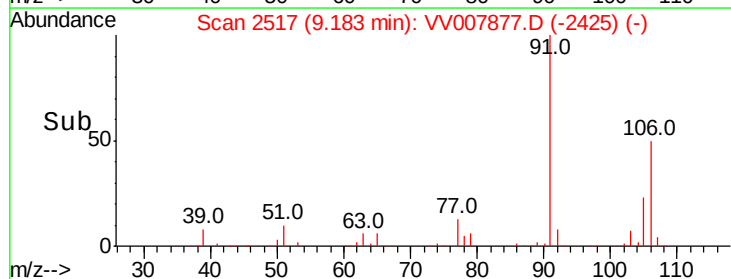
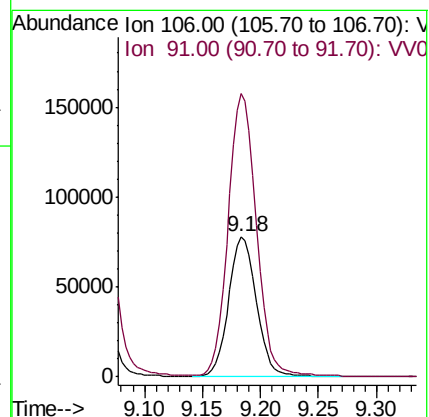
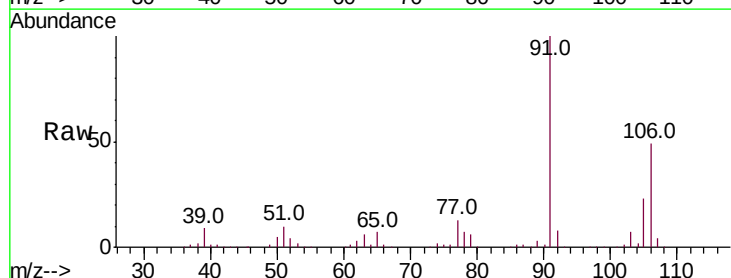
Acq: 26 Sep 2018 12:12

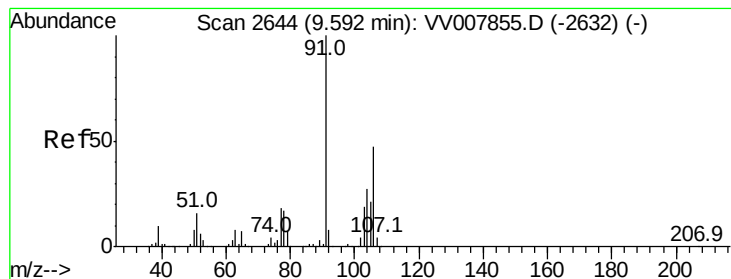
Tgt Ion: 106 Resp: 129576

Ion Ratio Lower Upper

106 100

91 202.0 142.3 264.3





#54

o-xylene

Concen: 50.932 ug/L

RT: 9.59 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

Instrument :

MSVOA_V

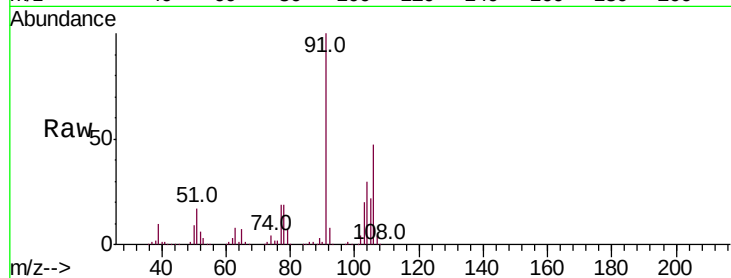
ClientSampleId :

Tot Ion:106 Resp: 127779

Ion Ratio Lower Upper

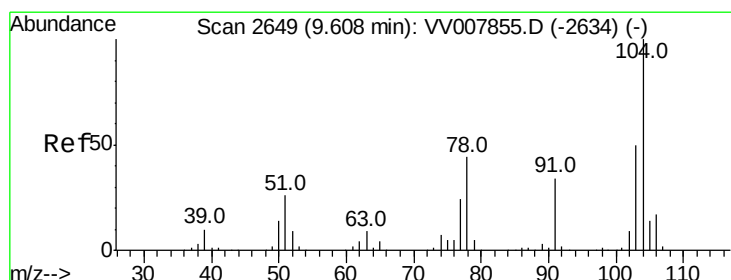
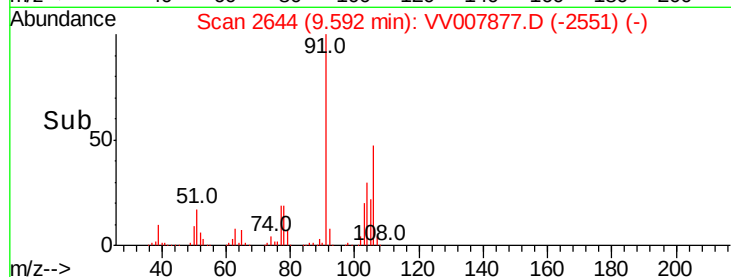
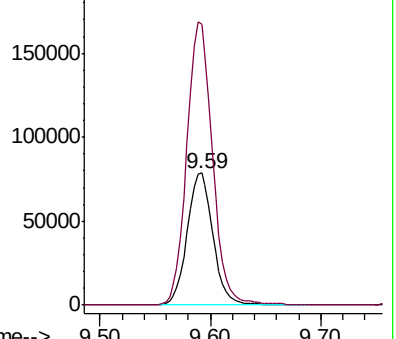
106 100

91 212.6 150.6 279.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 52.215 ug/L

RT: 9.61 min Scan# 2649

Delta R.T. 0.00 min

Lab File: VV007877.D

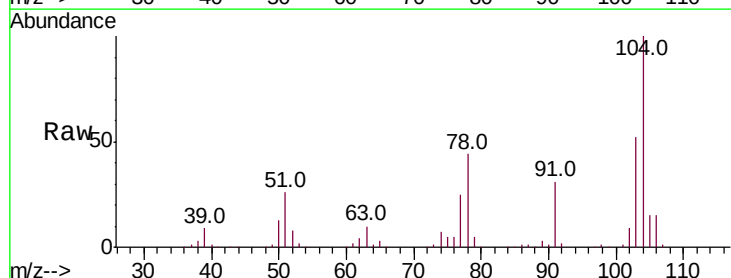
Acq: 26 Sep 2018 12:12

Tgt Ion:104 Resp: 224376

Ion Ratio Lower Upper

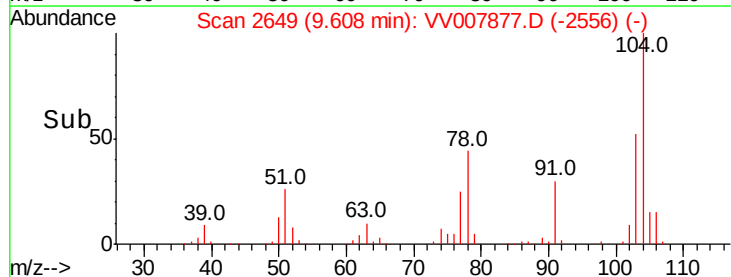
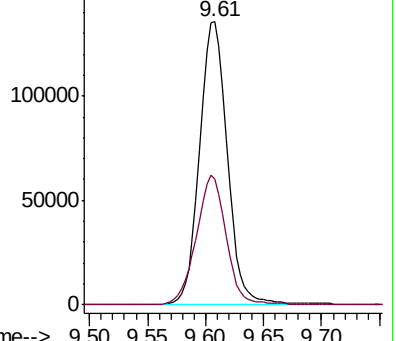
104 100

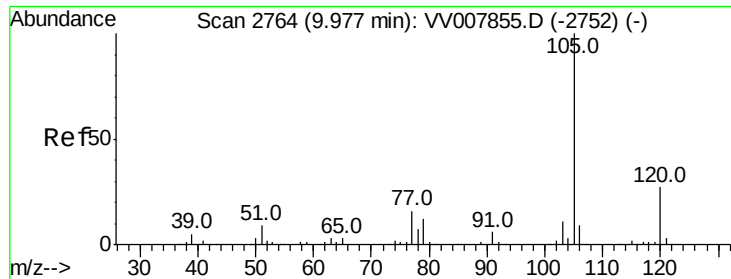
78 44.3 32.3 60.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 50.648 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

Instrument :
MSVOA_V
ClientSampleId :

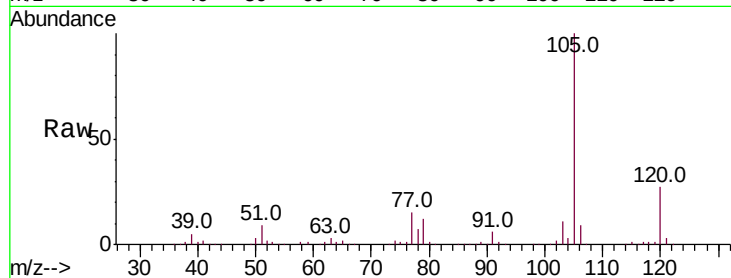
Tot Ion:105 Resp: 346335

Ion Ratio Lower Upper

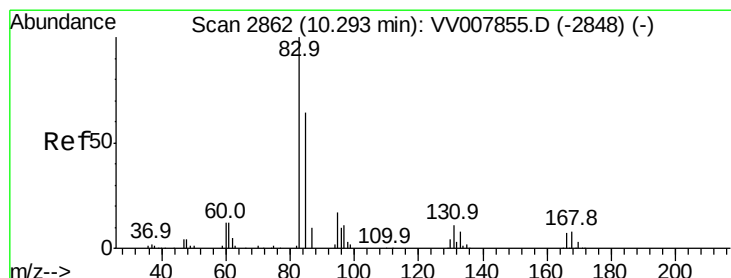
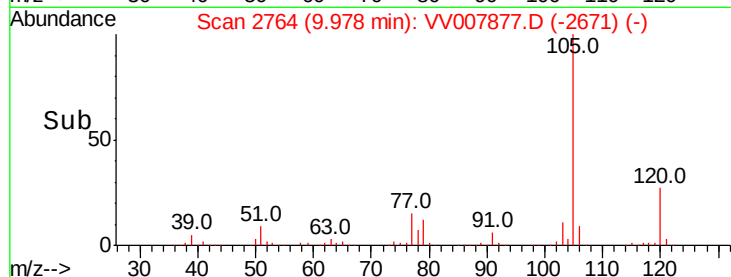
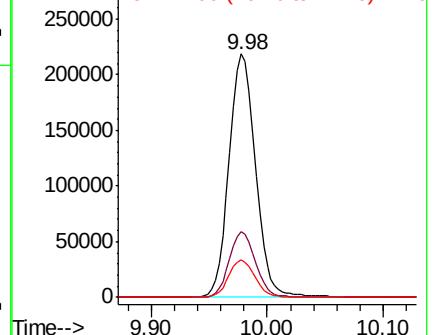
105 100

120 26.7 21.0 31.6

77 15.3 12.5 18.7



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V
Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 50.251 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

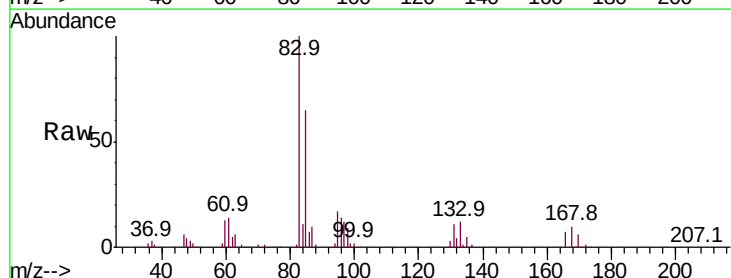
Tgt Ion: 83 Resp: 116573

Ion Ratio Lower Upper

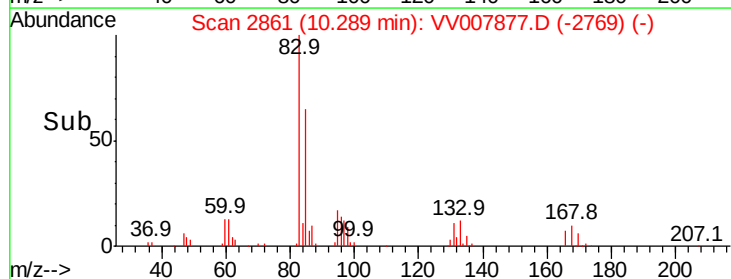
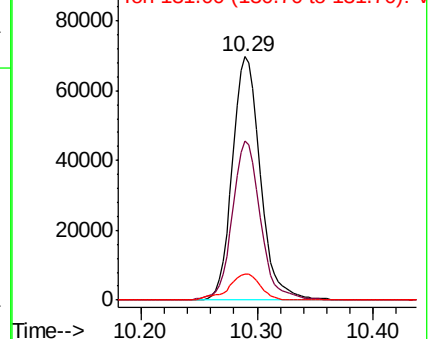
83 100

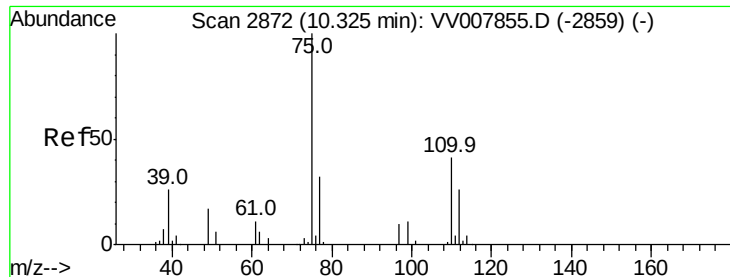
85 65.4 45.8 85.0

131 10.9 9.0 13.4



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): V





#59

1,2,3-Trichloropropane

Concen: 49.286 ug/L

RT: 10.32 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

Instrument :

MSVOA_V

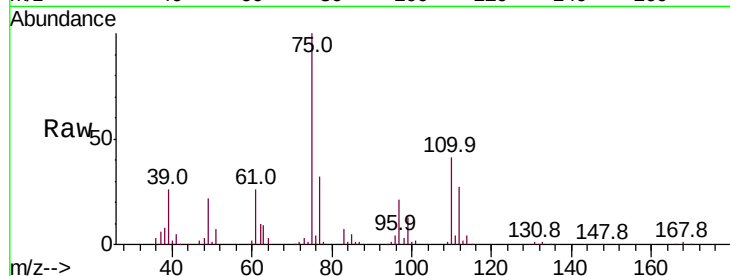
ClientSampleId :

Tot Ion: 75 Resp: 93198

Ion Ratio Lower Upper

75 100

77 32.4 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VV007855.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV007855.D (-2859) (-)

10.32

60000

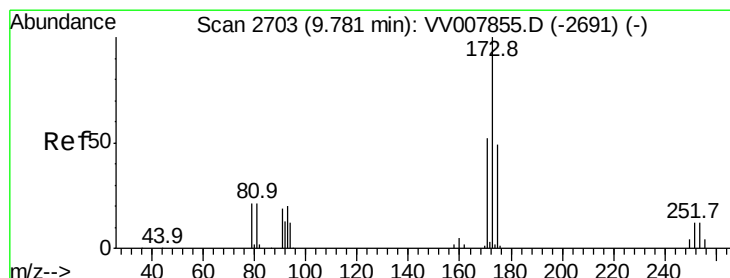
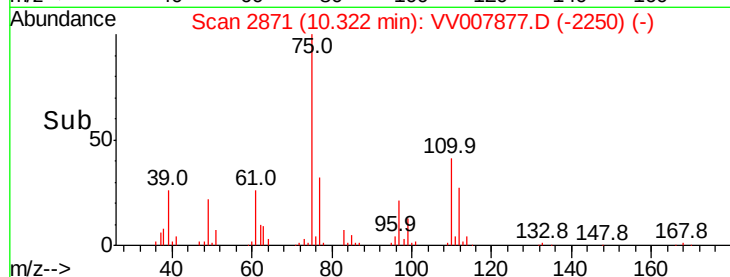
40000

20000

0

10.30 10.40

Time-->



#61

Bromoform

Concen: 51.390 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. -0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

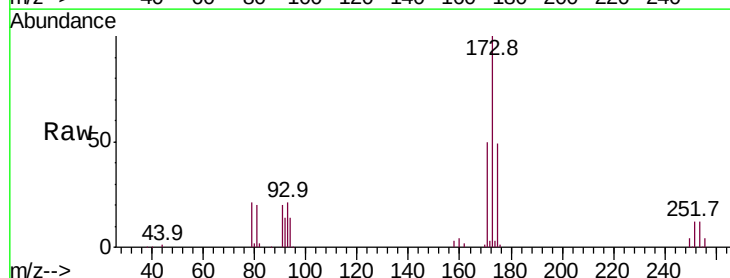
Tgt Ion: 173 Resp: 60034

Ion Ratio Lower Upper

173 100

175 48.4 38.5 57.7

254 11.2 9.9 14.9



Abundance Ion 173.00 (172.70 to 173.70): VV007855.D (-2691) (-)

Ion 175.00 (174.70 to 175.70): VV007855.D (-2691) (-)

Ion 254.00 (253.70 to 254.70): VV007855.D (-2691) (-)

9.78

50000

40000

30000

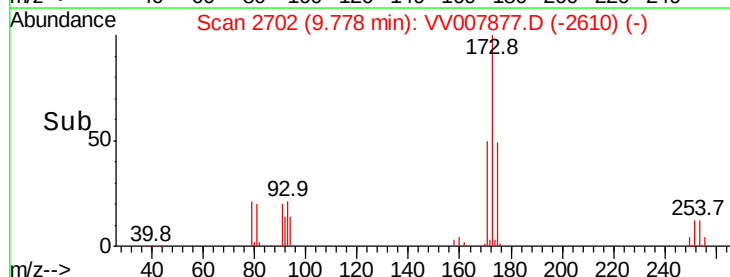
20000

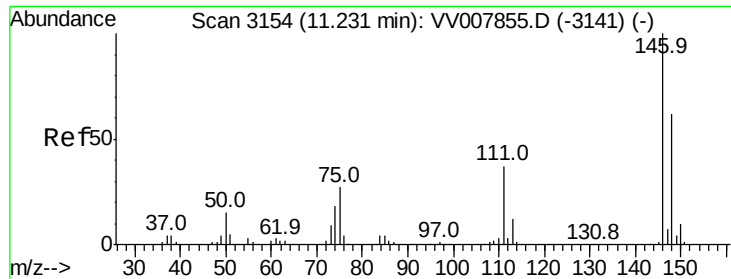
10000

0

9.70 9.75 9.80 9.85

Time-->





#62

1,3-Dichlorobenzene

Concen: 50.732 ug/L

RT: 11.23 min Scan# 3154

Delta R.T. 0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

Instrument :

MSVOA_V

ClientSampled :

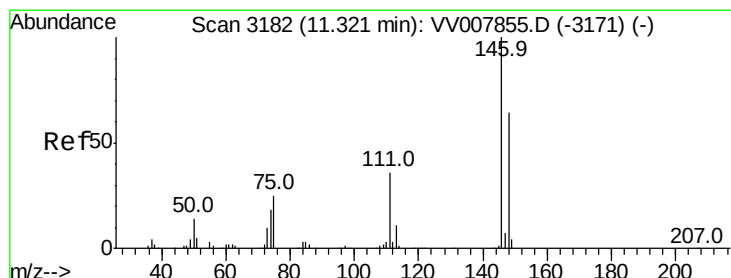
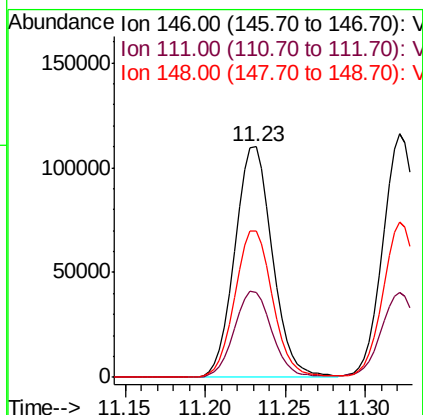
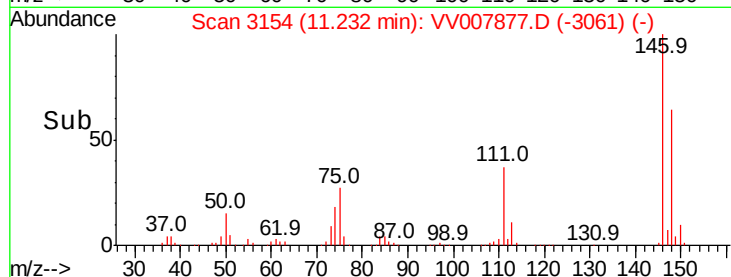
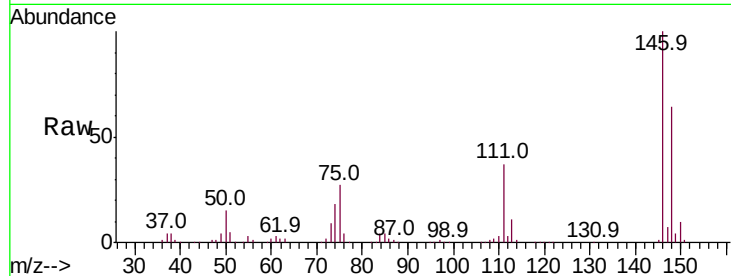
Tot Ion:146 Resp: 175841

Ion Ratio Lower Upper

146 100

111 36.9 25.6 47.4

148 63.7 45.4 84.2



#63

1,4-Dichlorobenzene

Concen: 49.664 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

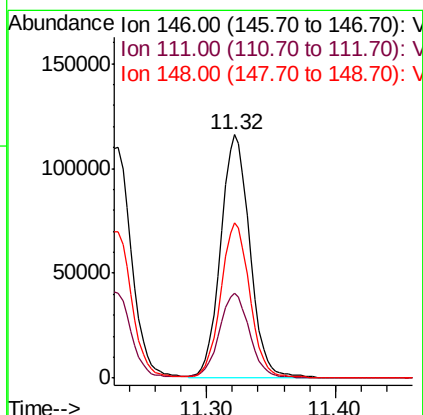
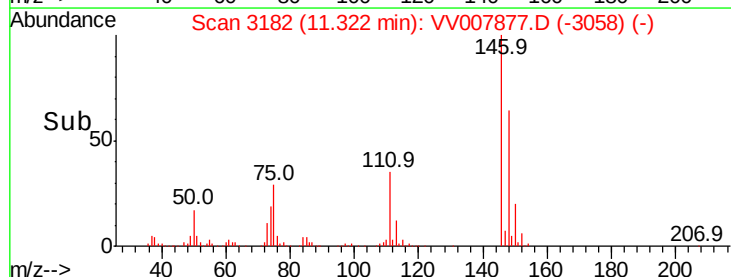
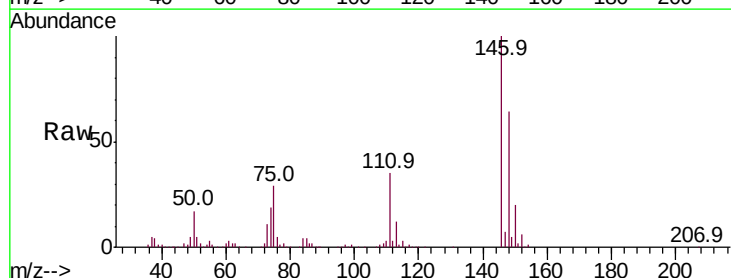
Tgt Ion:146 Resp: 182925

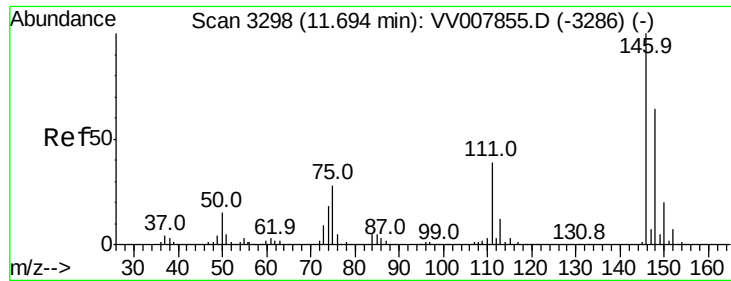
Ion Ratio Lower Upper

146 100

111 35.1 25.2 46.8

148 63.7 44.2 82.0

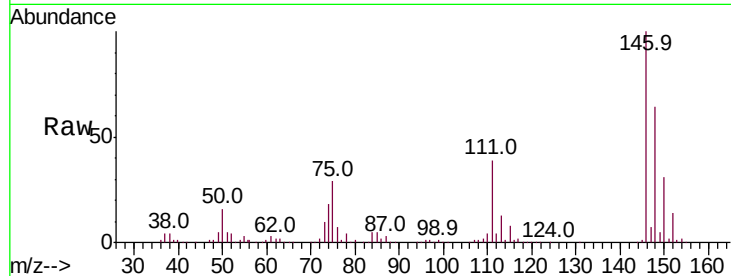




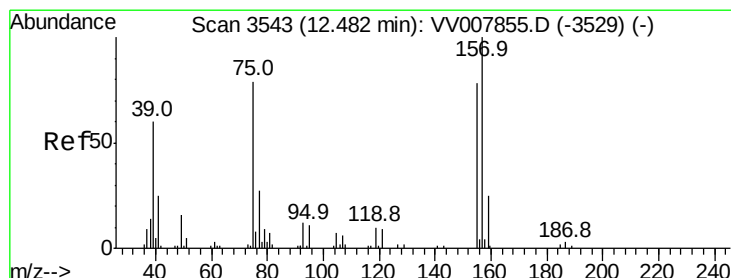
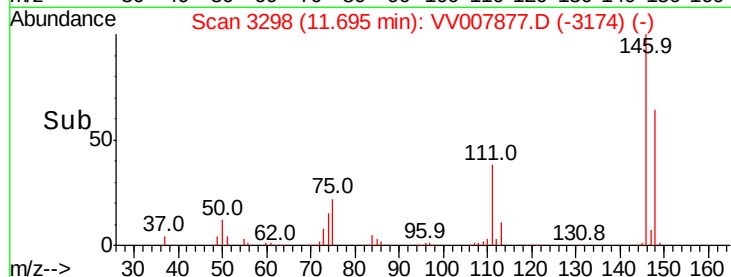
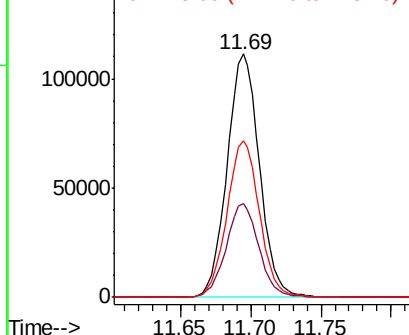
#65
 1,2-Dichlorobenzene
 Concen: 49.568 ug/L
 RT: 11.69 min Scan# 3298
 Delta R.T. 0.00 min
 Lab File: VV007877.D
 Acq: 26 Sep 2018 12:12

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	31.2	46.8
148	64.5	51.5	77.3

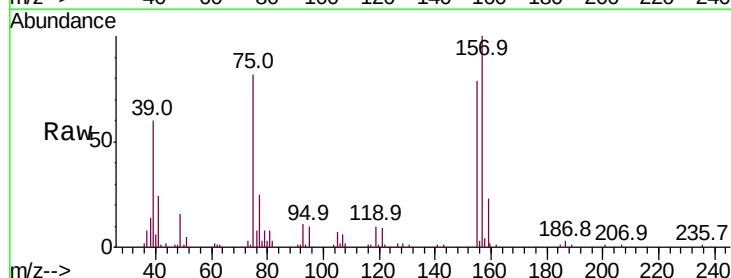


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

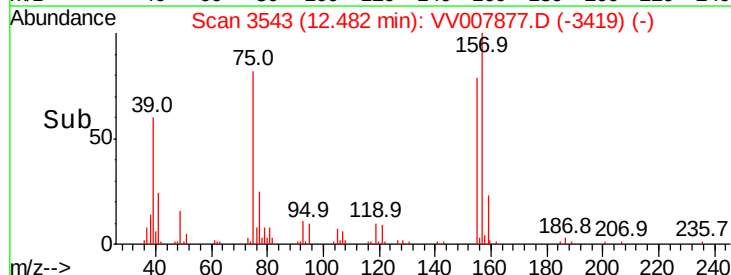
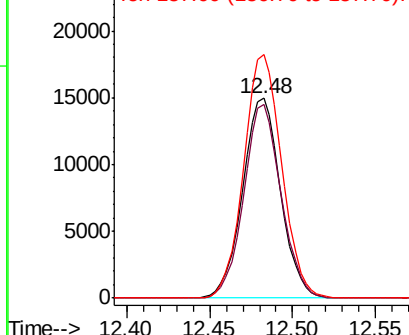


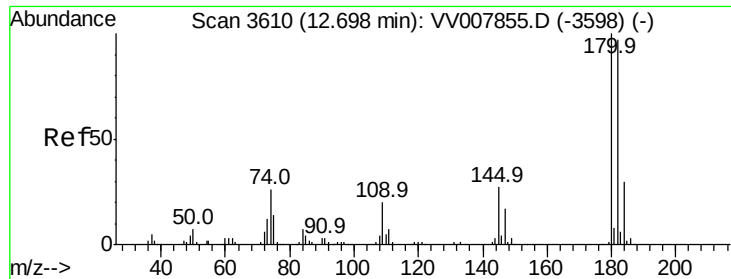
#66
 1,2-Dibromo-3-chloropropane
 Concen: 50.382 ug/L
 RT: 12.48 min Scan# 3543
 Delta R.T. 0.00 min
 Lab File: VV007877.D
 Acq: 26 Sep 2018 12:12

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.6	75.6	113.4
157	121.9	96.5	144.7



Abundance Ion 75.00 (74.70 to 75.70): VV0
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V

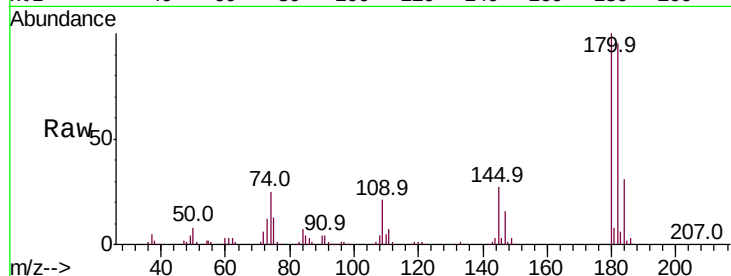




#67
 1,3,5-Trichlorobenzene
 Concen: 50.442 ug/L
 RT: 12.70 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VV007877.D
 Acq: 26 Sep 2018 12:12

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.8	115.2
184	30.8	24.6	36.8
145	27.1	21.7	32.5



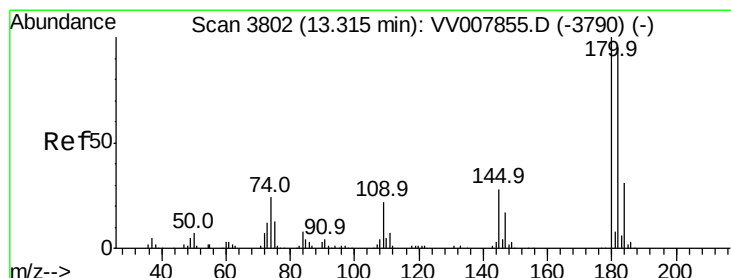
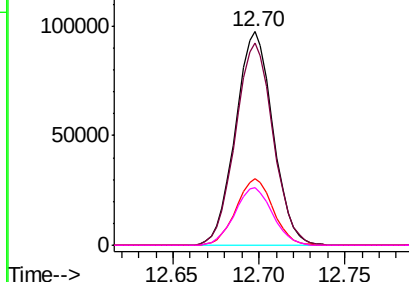
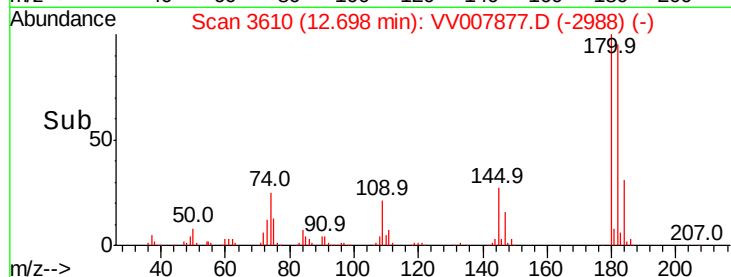
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

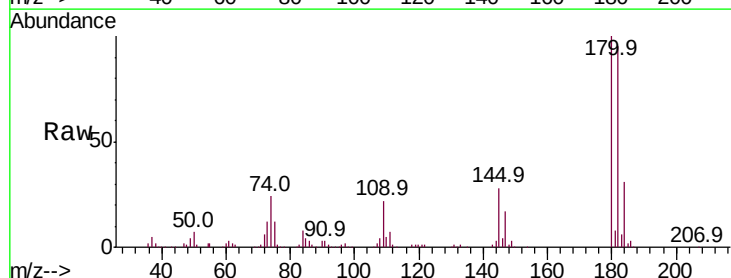
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 53.419 ug/L
 RT: 13.32 min Scan# 3802
 Delta R.T. 0.00 min
 Lab File: VV007877.D
 Acq: 26 Sep 2018 12:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.6	115.0
145	28.0	22.7	34.1

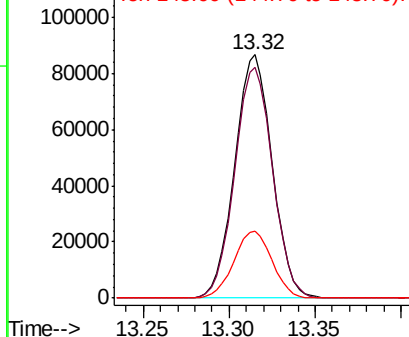
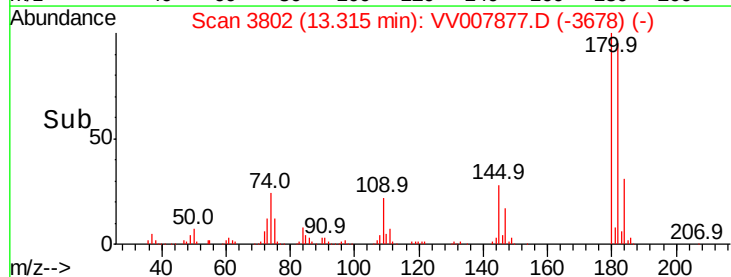


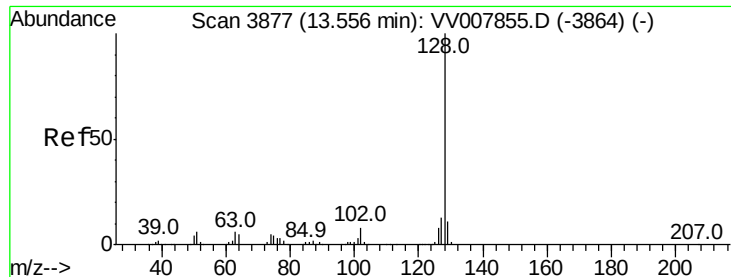
Abundance

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: 57.712 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

Instrument :

MSVOA_V

ClientSampleId :

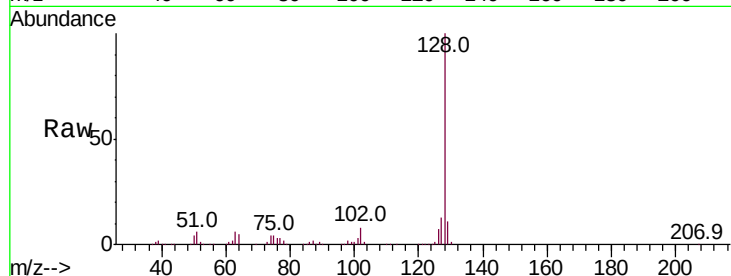
Tot Ion:128 Resp: 348062

Ion Ratio Lower Upper

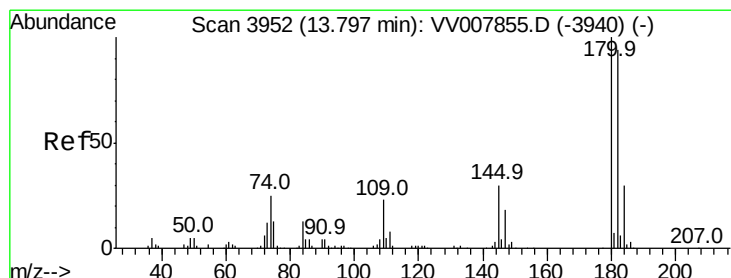
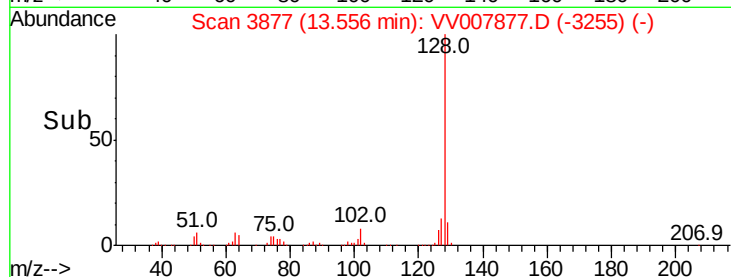
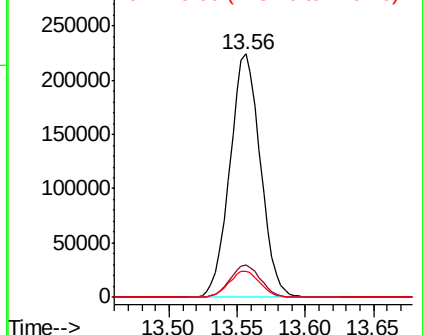
128 100

127 13.3 10.5 15.7

129 11.0 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: 53.845 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV007877.D

Acq: 26 Sep 2018 12:12

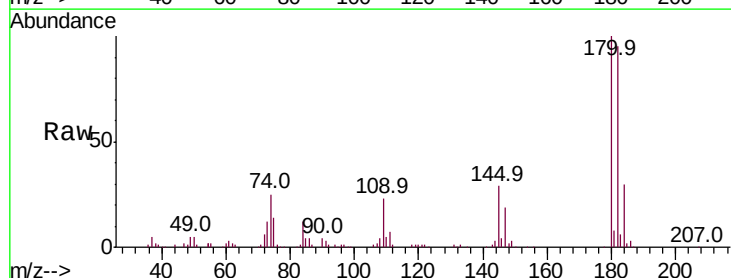
Tgt Ion:180 Resp: 134413

Ion Ratio Lower Upper

180 100

182 95.1 76.7 115.1

145 29.4 23.6 35.4



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

