

Data File : VV015021.D
Acq On : 18 Mar 2020 17:46
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05097

Quant Time: Mar 19 03:53:34 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM031820WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 19 02:58:14 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	371753	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	373029	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	206585	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	79292	45.65	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.30%
7) Chloroethane-d5	1.58	69	63887	46.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.80%
11) 1,1-Dichloroethene-d2	2.12	63	137100	46.18	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.36%
21) 2-Butanone-d5	3.92	46	114572	97.29	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.29%
24) Chloroform-d	4.38	84	202527	45.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.08%
26) 1,2-Dichloroethane-d4	5.06	65	126799	45.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.60%
32) Benzene-d6	5.07	84	405333	45.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.58%
36) 1,2-Dichloropropane-d6	6.09	67	116482	44.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	89.94%
41) Toluene-d8	7.33	98	413196	46.37	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.74%
43) trans-1,3-Dichloropropene-	7.64	79	68157	49.23	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.46%
47) 2-Hexanone-d5	8.12	63	110122	92.27	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	92.27%
57) 1,1,2,2-Tetrachloroethane-	10.23	84	178200	45.72	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.44%
64) 1,2-Dichlorobenzene-d4	11.65	152	189612	45.72	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.44%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	152818	48.086 ug/L	99
3) Chloromethane	1.25	50	105979	49.055 ug/L	98
5) Vinyl chloride	1.32	62	101442	48.553 ug/L	98
6) Bromomethane	1.53	94	67535	49.815 ug/L	100
8) Chloroethane	1.60	64	56094	49.828 ug/L	97
9) Trichlorofluoromethane	1.76	101	160554	48.301 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	81969	51.272 ug/L	98
12) 1,1-Dichloroethene	2.13	96	75452	49.874 ug/L	99
13) Acetone	2.20	43	65612	66.994 ug/L	85
14) Carbon disulfide	2.31	76	270669	50.490 ug/L	100
15) Methyl Acetate	2.45	43	83412	49.783 ug/L	94
16) Methylene chloride	2.52	84	114537	47.776 ug/L	99
17) trans-1,2-Dichloroethene	2.78	96	112158	49.392 ug/L	99
18) Methyl tert-butyl Ether	2.79	73	342684	49.021 ug/L	98
19) 1,1-Dichloroethane	3.21	63	187628	48.087 ug/L	96
20) cis-1,2-Dichloroethene	3.94	96	123602	48.705 ug/L	100
22) 2-Butanone	4.00	43	118546	89.396 ug/L	99

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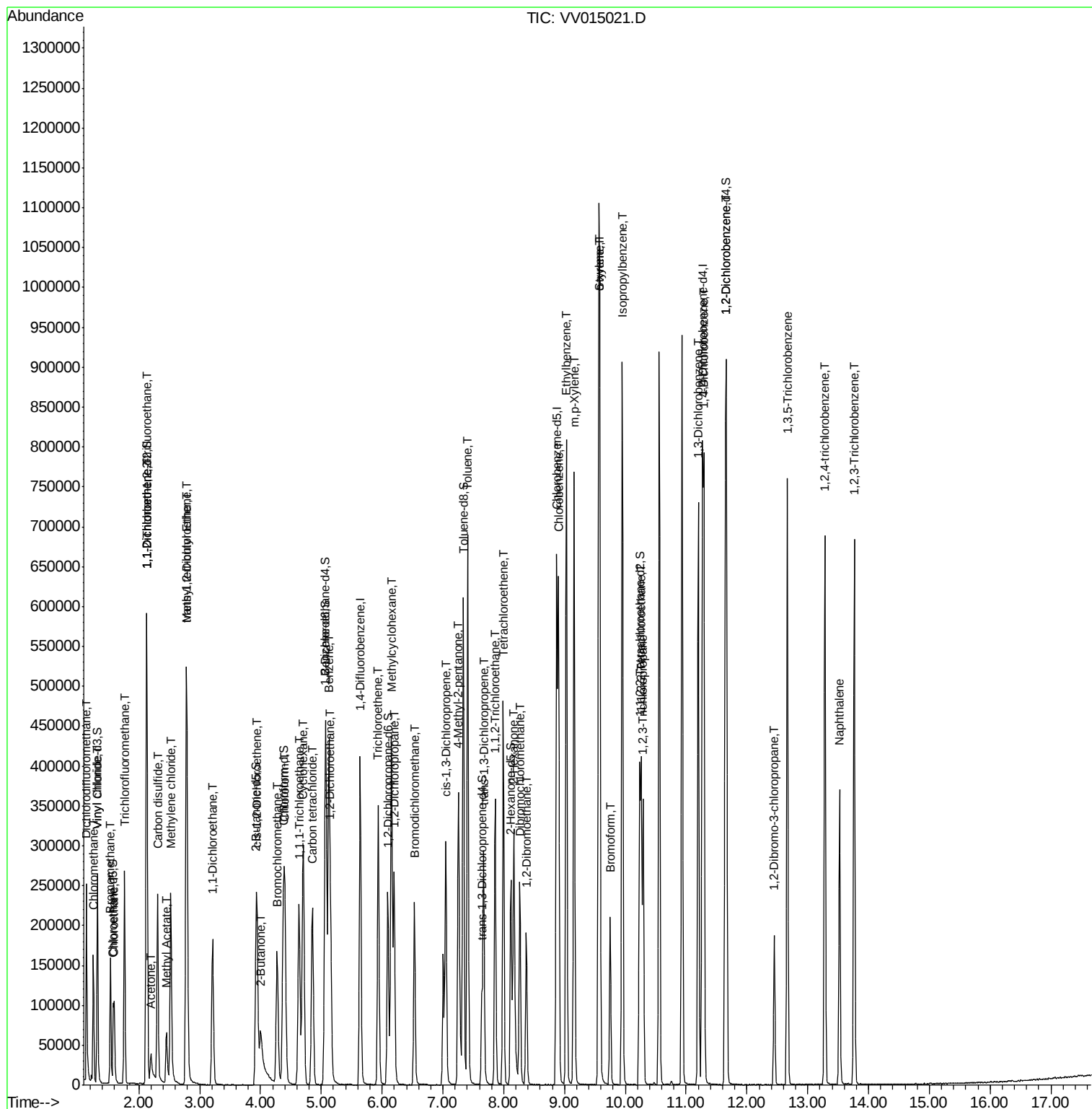
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.27	128	66381	48.095	ug/L	97
25) Chloroform	4.40	83	209686	48.052	ug/L	100
27) 1,2-Dichloroethane	5.15	62	155655	47.767	ug/L	100
29) Cyclohexane	4.70	56	166158	49.612	ug/L	99
30) 1,1,1-Trichloroethane	4.63	97	188542	46.852	ug/L	99
31) Carbon tetrachloride	4.85	117	172625	47.734	ug/L	100
33) Benzene	5.13	78	443554	48.574	ug/L	100
34) Trichloroethene	5.94	95	117832	47.633	ug/L	97
35) Methylcyclohexane	6.15	83	198347	50.529	ug/L	100
37) 1,2-Dichloropropane	6.20	63	105266	47.669	ug/L	99
38) Bromodichloromethane	6.53	83	155400	48.253	ug/L	99
39) cis-1,3-Dichloropropene	7.05	75	186938	50.556	ug/L	99
40) 4-Methyl-2-pentanone	7.25	43	284481	92.999	ug/L	98
42) Toluene	7.41	91	512111	49.609	ug/L	99
44) trans-1,3-Dichloropropene	7.67	75	166694	49.769	ug/L	95
45) 1,1,2-Trichloroethane	7.86	97	115614	48.026	ug/L	96
46) Tetrachloroethene	7.99	164	117037	49.827	ug/L	99
48) 2-Hexanone	8.17	43	215971	94.518	ug/L	94
49) Dibromochloromethane	8.27	129	135955	48.593	ug/L	99
50) 1,2-Dibromoethane	8.37	107	127068	47.294	ug/L	100
51) Chlorobenzene	8.90	112	350432	48.282	ug/L	100
52) Ethylbenzene	9.03	91	581369	49.579	ug/L	99
53) m,p-Xylene	9.16	106	229545	50.002	ug/L	97
54) o-xylene	9.56	106	228572	50.278	ug/L	100
55) Styrene	9.58	104	392208	51.369	ug/L	99
56) Isopropylbenzene	9.95	105	606042	51.184	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.26	83	183713	46.918	ug/L	99
59) 1,2,3-Trichloropropane	10.29	75	146347	47.153	ug/L	98
61) Bromoform	9.75	173	101503	49.693	ug/L	100
62) 1,3-Dichlorobenzene	11.20	146	311899	50.159	ug/L	100
63) 1,4-Dichlorobenzene	11.29	146	315906	48.806	ug/L	96
65) 1,2-Dichlorobenzene	11.66	146	307913	46.620	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.45	75	42217	45.737	ug/L	95
67) 1,3,5-Trichlorobenzene	12.67	180	254452	51.719	ug/L	98
68) 1,2,4-trichlorobenzene	13.28	180	230969	50.977	ug/L	100
69) Naphthalene	13.52	128	296241	50.078	ug/L	100
70) 1,2,3-Trichlorobenzene	13.77	180	232139	52.151	ug/L	99

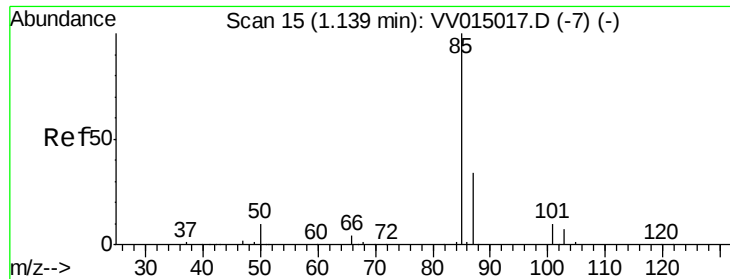
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 48.086 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

Instrument :

MSVOA_V

ClientSampleId :

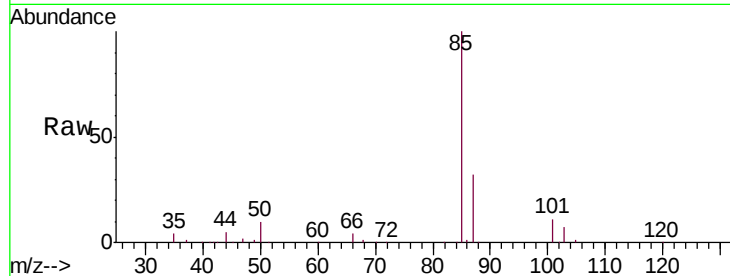
VSTD05097

Tgt Ion: 85 Resp: 152818

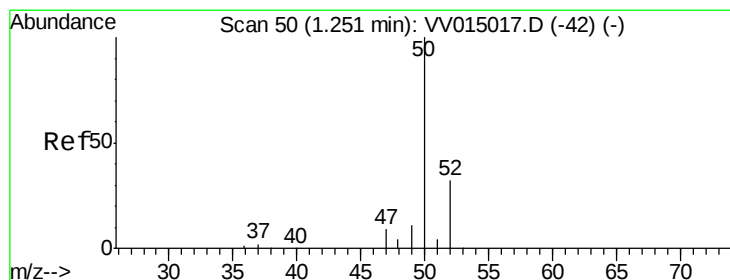
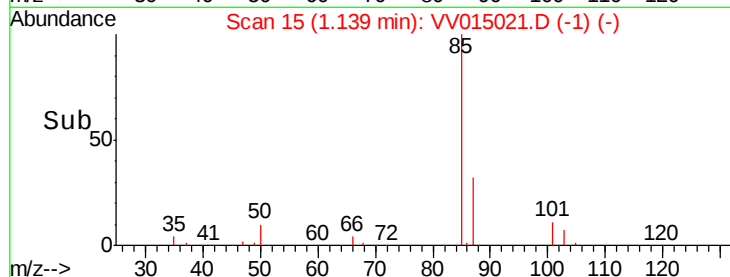
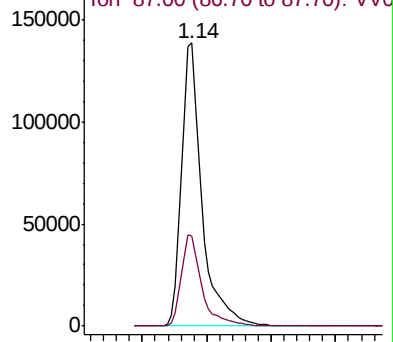
Ion Ratio Lower Upper

85 100

87 32.5 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VV015021.D (-1) (-)



#3

Chloromethane

Concen: 49.055 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV015021.D

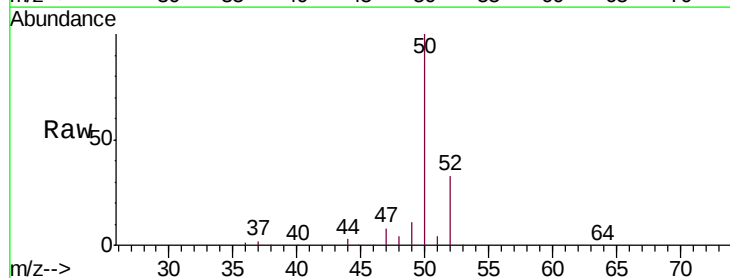
Acq: 18 Mar 2020 17:46

Tgt Ion: 50 Resp: 105979

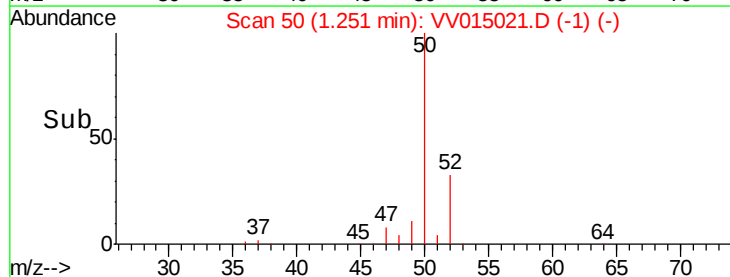
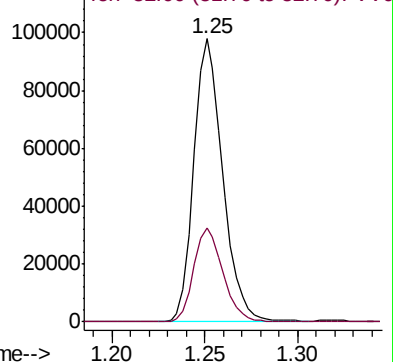
Ion Ratio Lower Upper

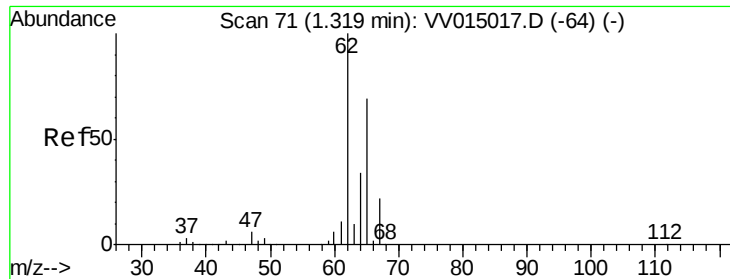
50 100

52 33.2 22.3 41.5



Abundance Ion 50.00 (49.70 to 50.70): VV015021.D (-1) (-)





#5

Vinyl chloride

Concen: 48.553 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

Instrument :

MSVOA_V

ClientSampleId :

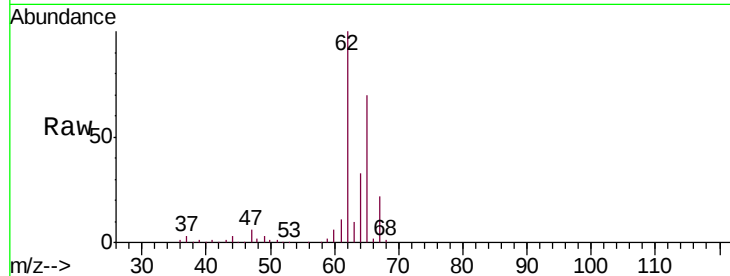
VSTD05097

Tgt Ion: 62 Resp: 101442

Ion Ratio Lower Upper

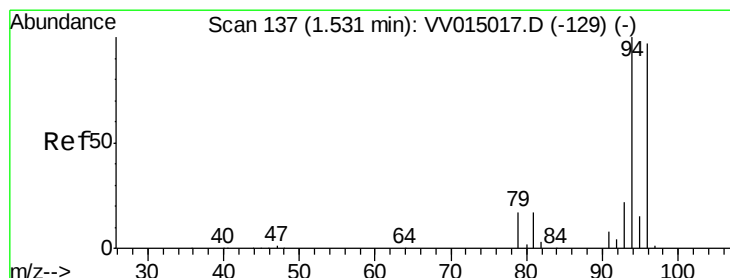
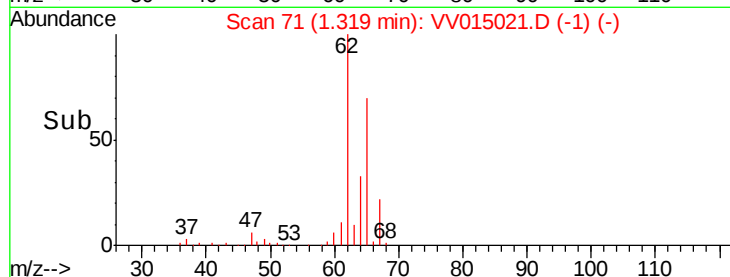
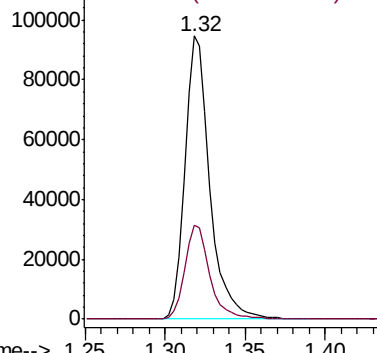
62 100

64 33.1 23.9 44.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 49.815 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV015021.D

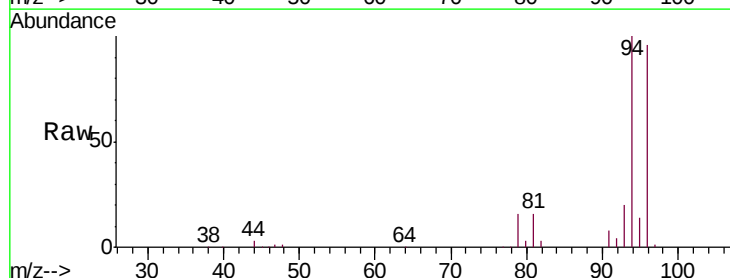
Acq: 18 Mar 2020 17:46

Tgt Ion: 94 Resp: 67535

Ion Ratio Lower Upper

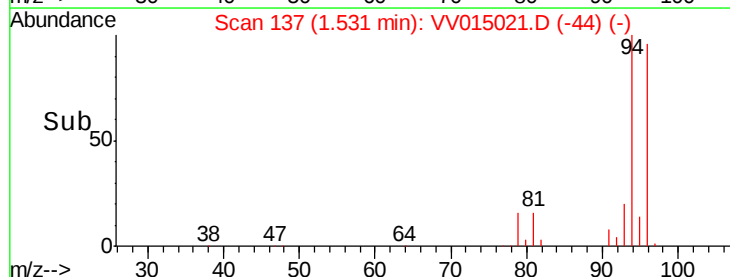
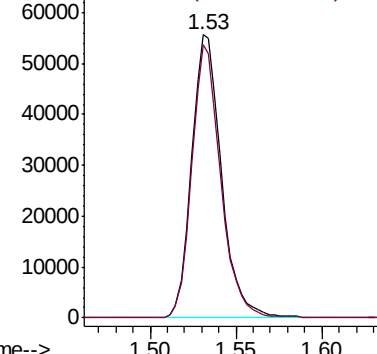
94 100

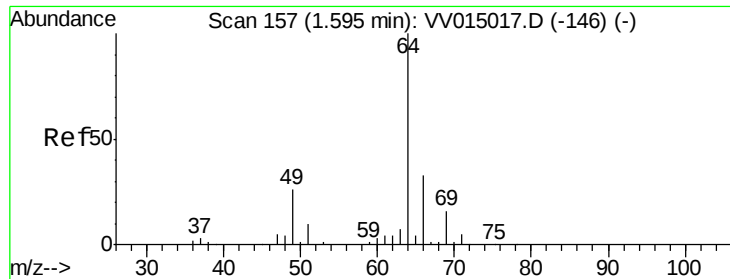
96 96.5 67.8 126.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 49.828 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

Instrument :

MSVOA_V

ClientSampleId :

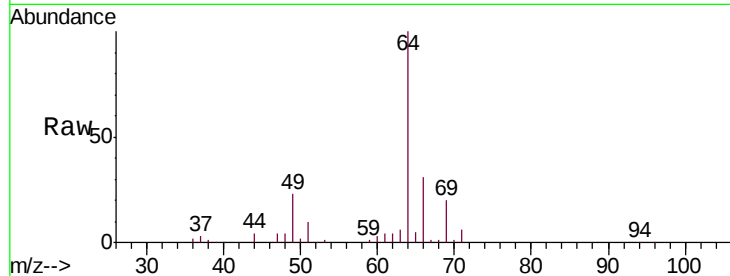
VSTD05097

Tgt Ion: 64 Resp: 56094

Ion Ratio Lower Upper

64 100

66 31.4 23.2 43.0



Abundance Ion 64.00 (63.70 to 64.70): VV015017.D (-146) (-)

Ion 66.00 (65.70 to 66.70): VV015017.D (-146) (-)

1.60

50000

40000

30000

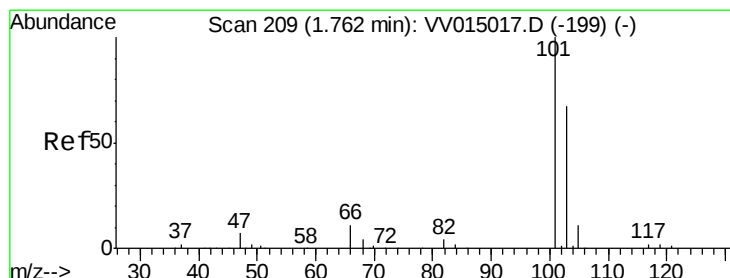
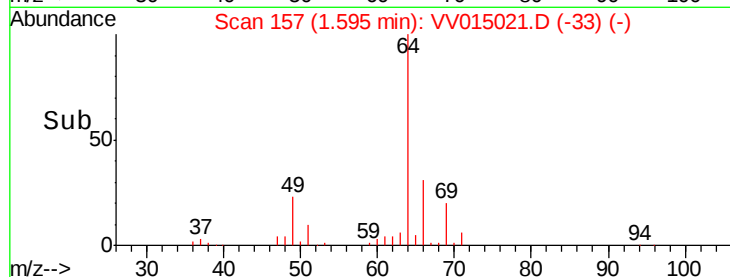
20000

10000

0

Time-->

1.55 1.60 1.65 1.70



#9

Trichlorofluoromethane

Concen: 48.301 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV015021.D

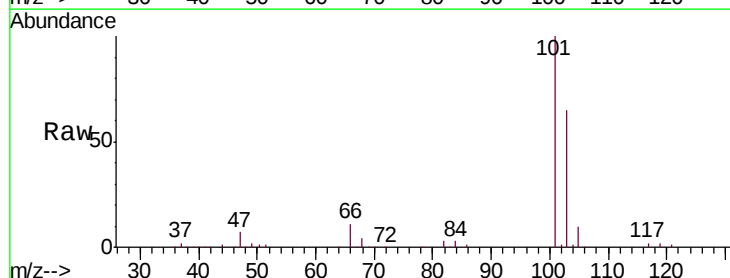
Acq: 18 Mar 2020 17:46

Tgt Ion: 101 Resp: 160554

Ion Ratio Lower Upper

101 100

103 65.4 53.4 80.2



Abundance Ion 101.00 (100.70 to 101.70): VV015017.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV015017.D (-199) (-)

1.76

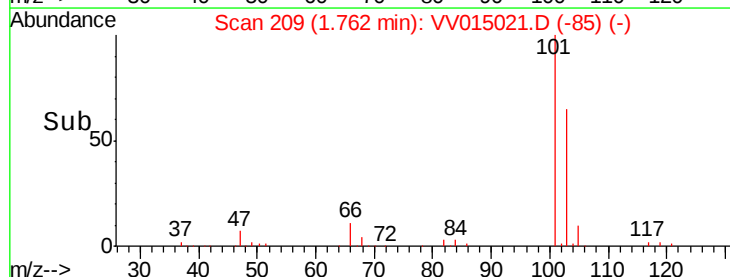
100000

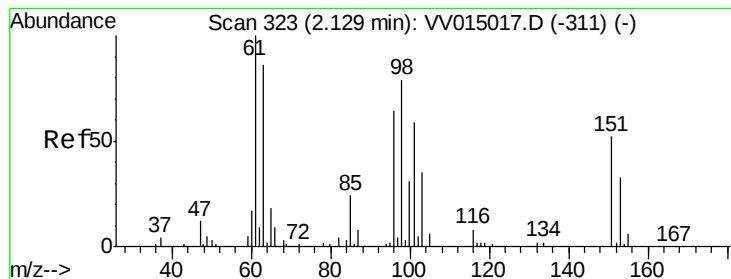
50000

0

Time-->

1.70 1.75 1.80 1.85





#10

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

Concen: 51.272 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

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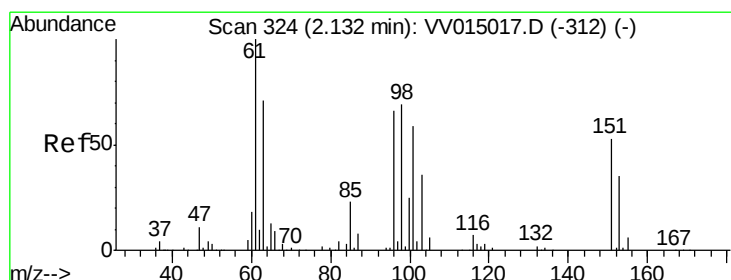
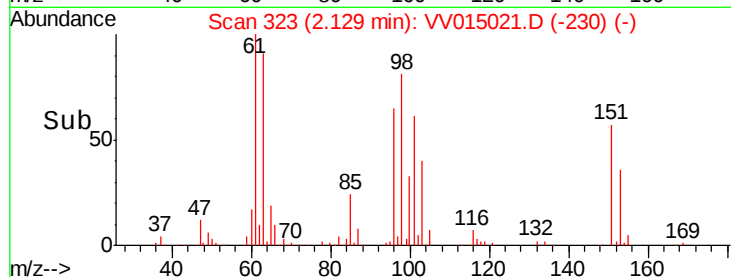
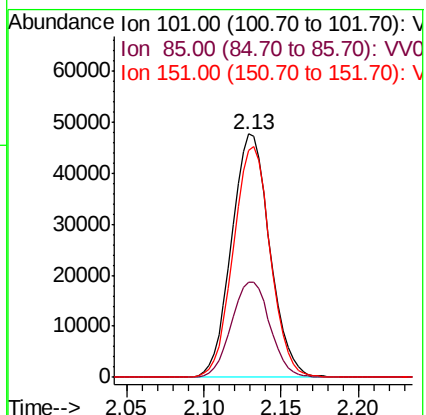
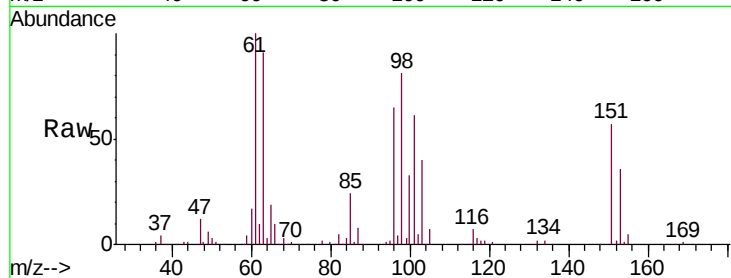
Tgt Ion: 101 Resp: 81969

Ion Ratio Lower Upper

101 100

85 39.5 33.2 49.8

151 91.6 72.6 109.0



#12

1,1-Dichloroethene

Concen: 49.874 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

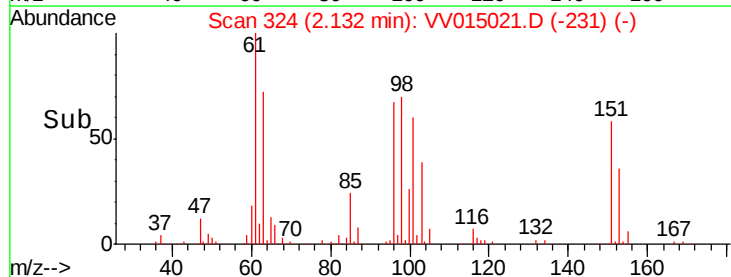
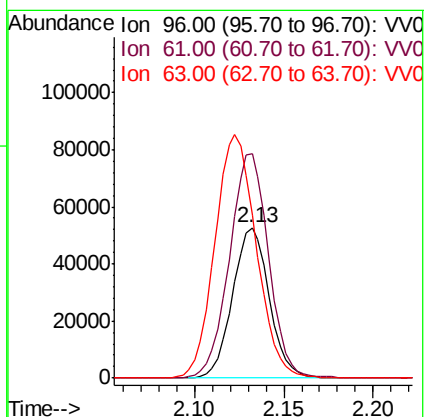
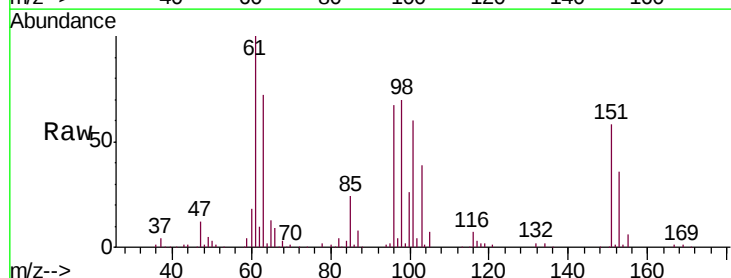
Tgt Ion: 96 Resp: 75452

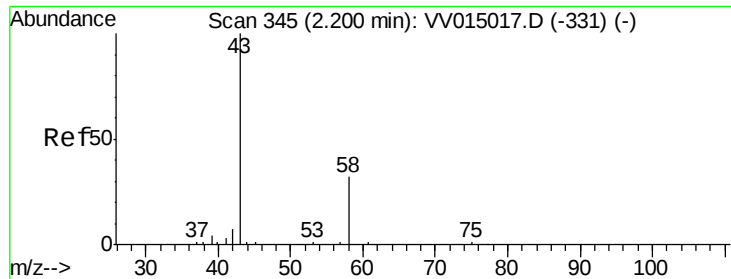
Ion Ratio Lower Upper

96 100

61 149.3 105.6 196.2

63 108.2 75.9 140.9





#13

Acetone

Concen: 66.994 ug/L

RT: 2.20 min Scan# 344

Delta R.T. -0.00 min

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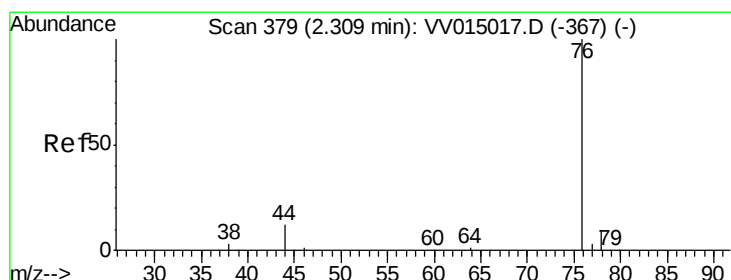
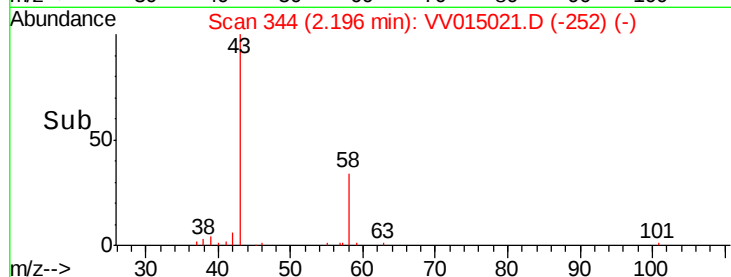
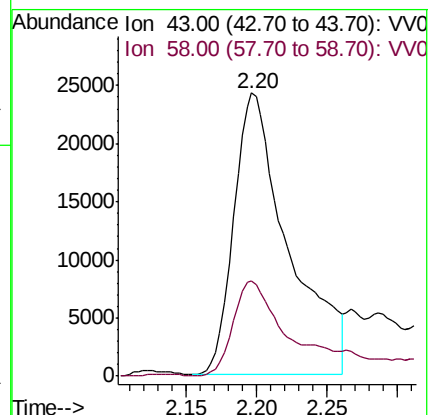
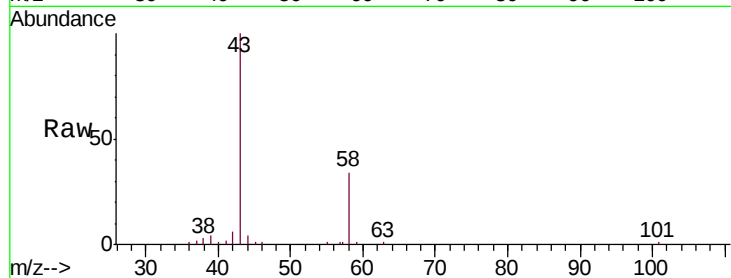
VSTD05097

Tgt Ion: 43 Resp: 65612

Ion Ratio Lower Upper

43 100

58 28.5 0.0 43.2



#14

Carbon disulfide

Concen: 50.490 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV015021.D

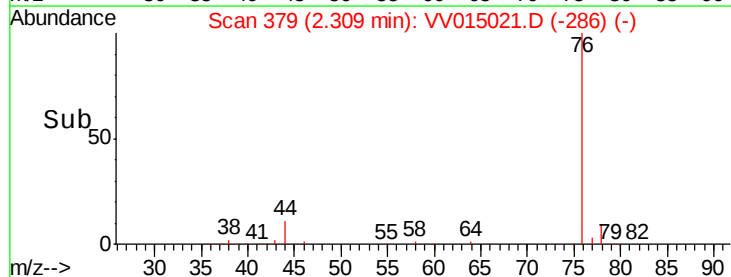
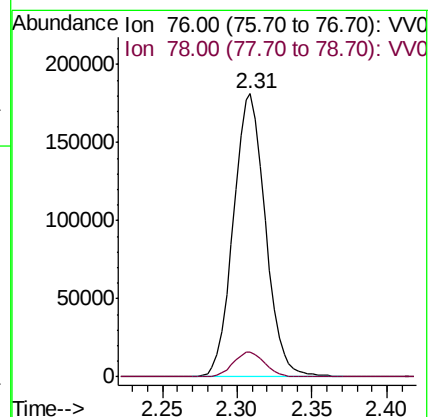
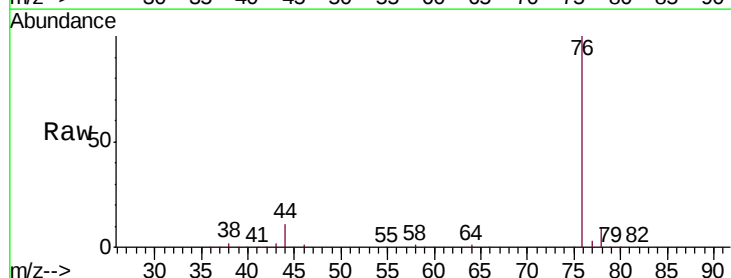
Acq: 18 Mar 2020 17:46

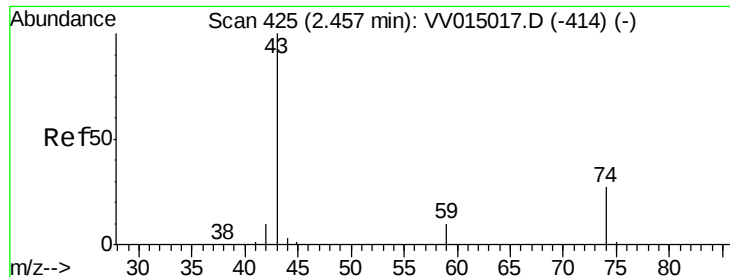
Tgt Ion: 76 Resp: 270669

Ion Ratio Lower Upper

76 100

78 8.9 7.1 10.7

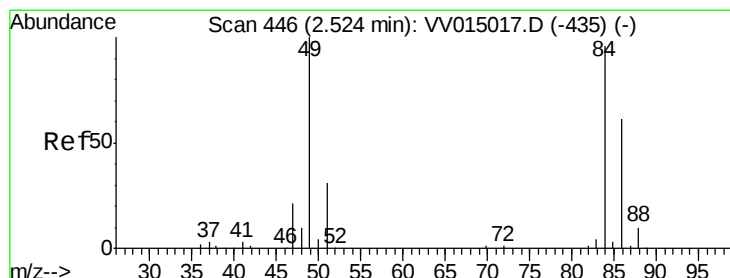
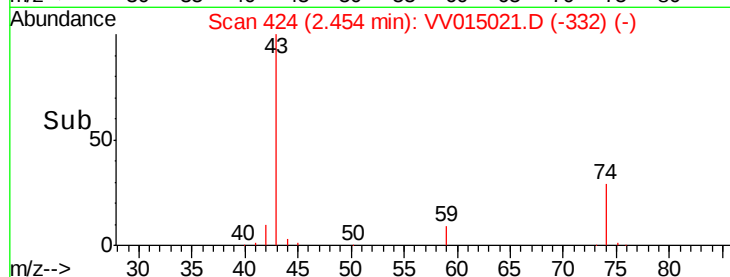
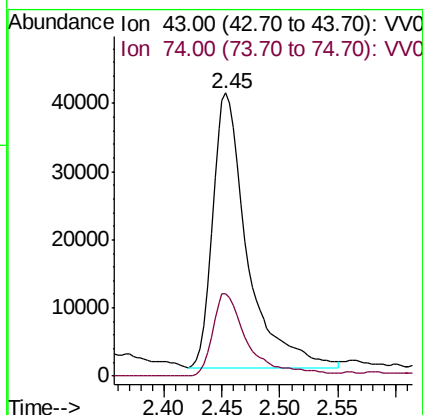
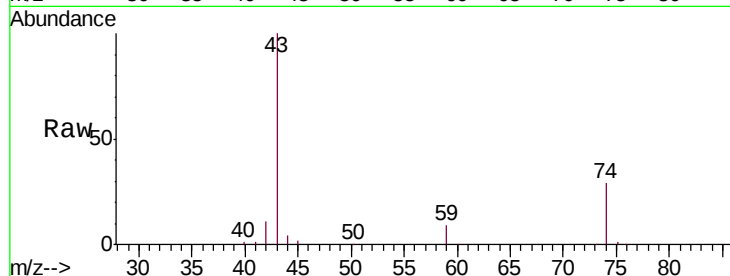




#15
Methyl Acetate
Concen: 49.783 ug/L
RT: 2.45 min Scan# 424
Delta R.T. -0.00 min
Lab File: VV015021.D
Acq: 18 Mar 2020 17:46

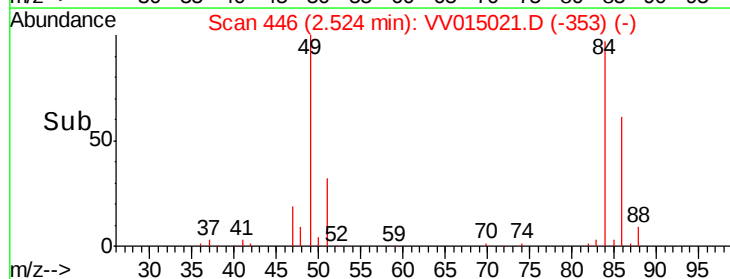
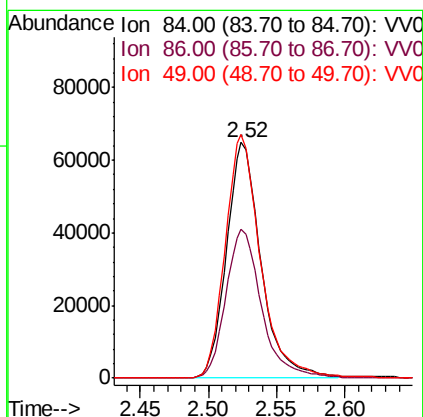
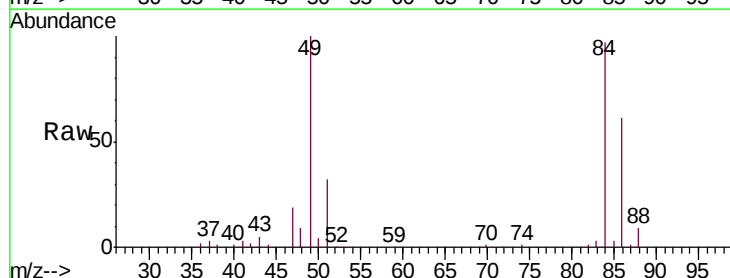
Instrument :
MSVOA_V
ClientSampleId :
VSTD05097

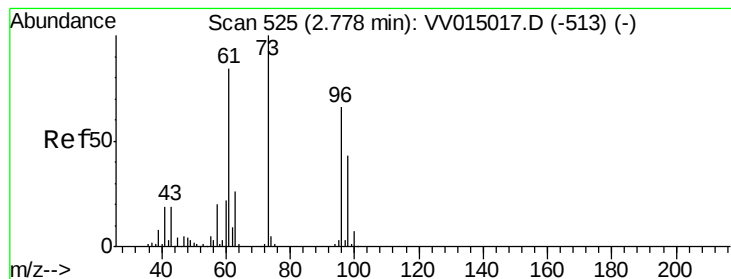
Tgt Ion: 43 Resp: 83412
Ion Ratio Lower Upper
43 100
74 31.2 22.2 33.4



#16
Methylene chloride
Concen: 47.776 ug/L
RT: 2.52 min Scan# 446
Delta R.T. -0.00 min
Lab File: VV015021.D
Acq: 18 Mar 2020 17:46

Tgt Ion: 84 Resp: 114537
Ion Ratio Lower Upper
84 100
86 63.0 44.5 82.7
49 103.3 72.9 135.5





#17

trans-1,2-Dichloroethene

Concen: 49.392 ug/L

RT: 2.78 min Scan# 525

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD05097

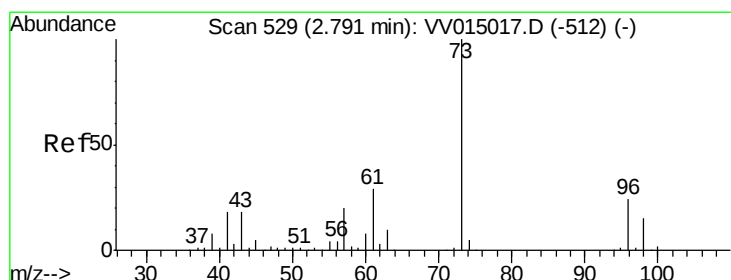
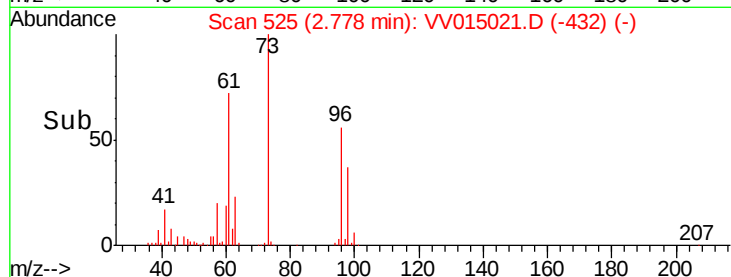
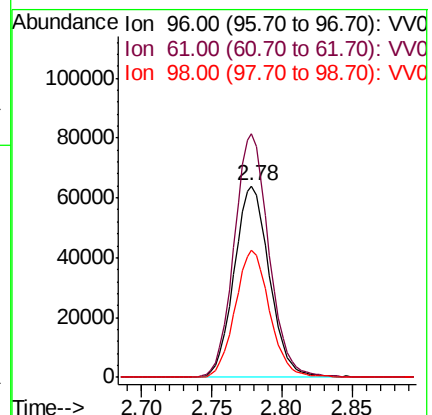
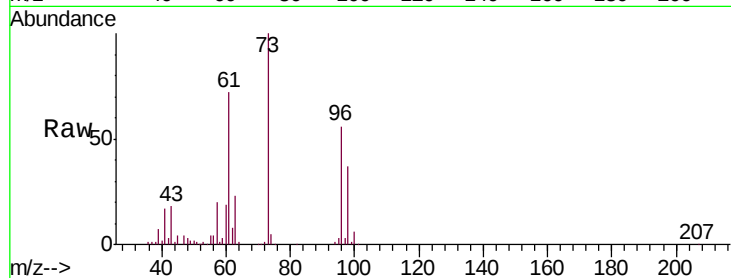
Tgt Ion: 96 Resp: 112158

Ion Ratio Lower Upper

96 100

61 127.1 89.0 165.4

98 66.1 44.8 83.2



#18

Methyl tert-butyl Ether

Concen: 49.021 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

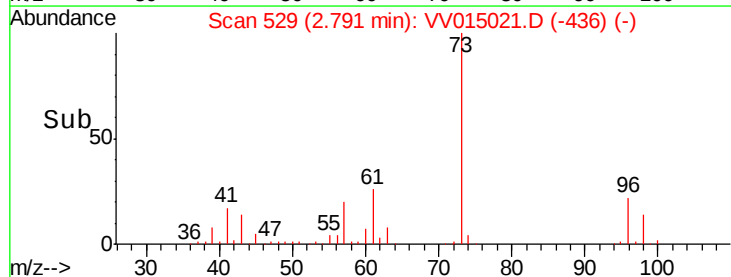
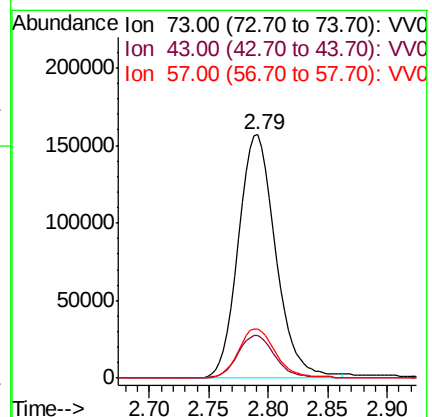
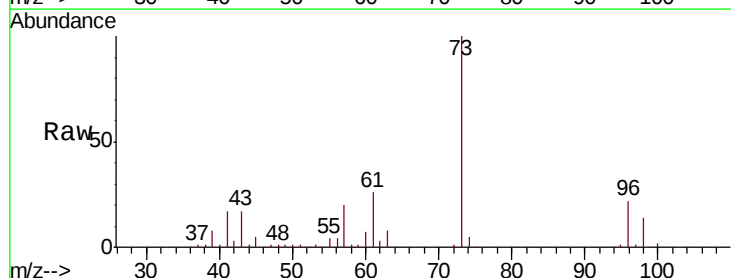
Tgt Ion: 73 Resp: 342684

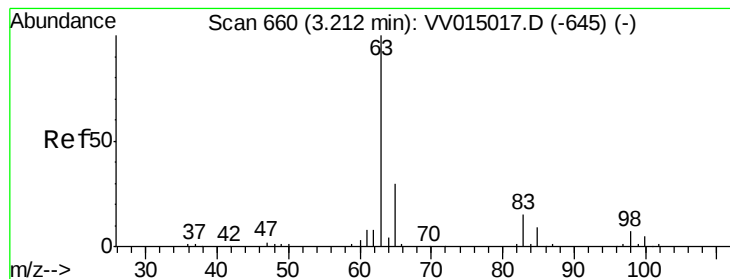
Ion Ratio Lower Upper

73 100

43 16.8 14.4 21.6

57 20.4 16.0 24.0





#19

1,1-Dichloroethane

Concen: 48.087 ug/L

RT: 3.21 min Scan# 660

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD05097

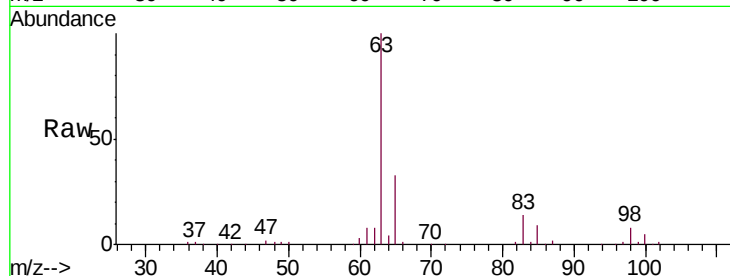
Tgt Ion: 63 Resp: 187628

Ion Ratio Lower Upper

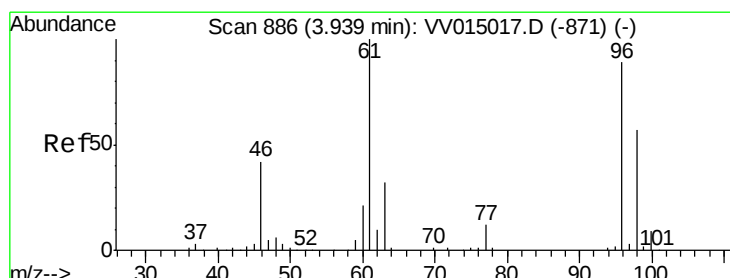
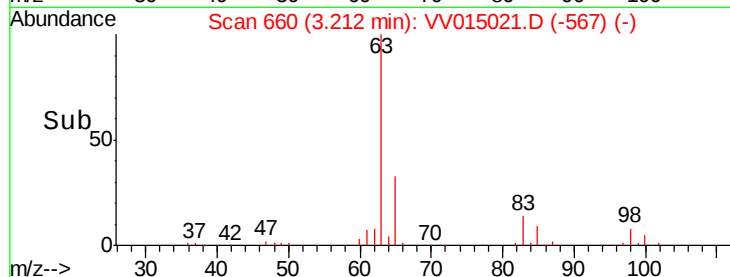
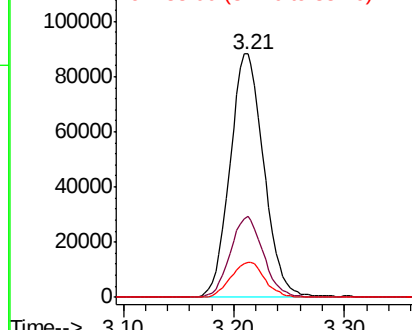
63 100

65 33.1 21.0 39.0

83 14.3 10.3 19.1



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: 48.705 ug/L

RT: 3.94 min Scan# 885

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

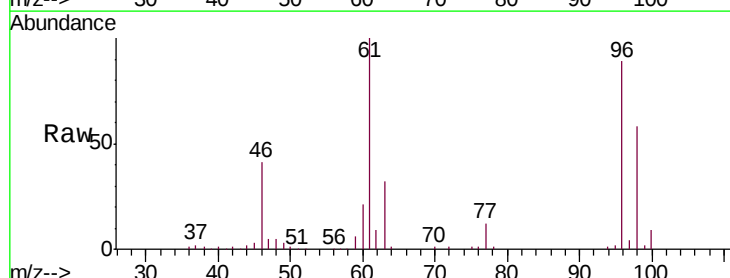
Tgt Ion: 96 Resp: 123602

Ion Ratio Lower Upper

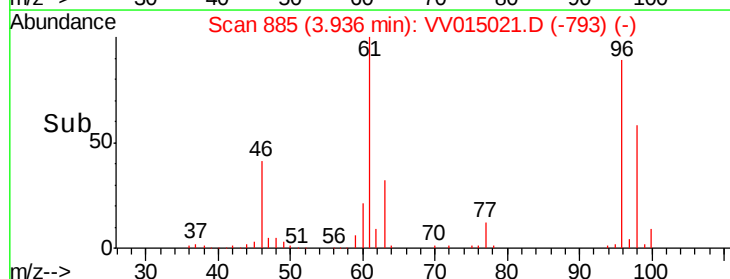
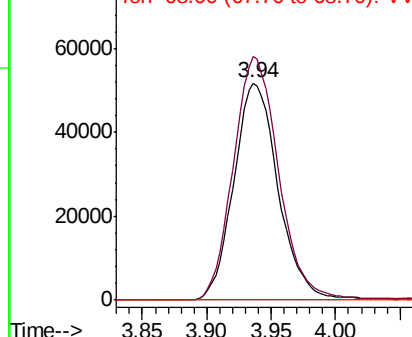
96 100

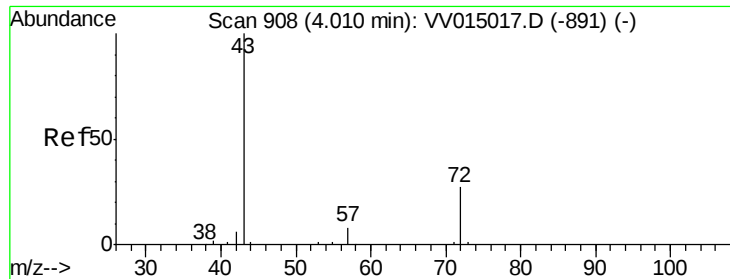
61 112.1 78.3 145.3

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: 89.396 ug/L

RT: 4.00 min Scan# 906

Delta R.T. -0.01 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

Instrument :

MSVOA_V

ClientSampleId :

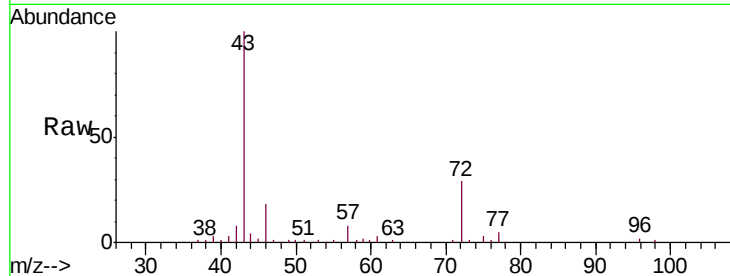
VSTD05097

Tgt Ion: 43 Resp: 118546

Ion Ratio Lower Upper

43 100

72 24.1 12.4 37.2



Abundance Ion 43.00 (42.70 to 43.70): VV015021.D (-891) (-)

Ion 72.00 (71.70 to 72.70): VV015021.D (-891) (-)

4.00

30000

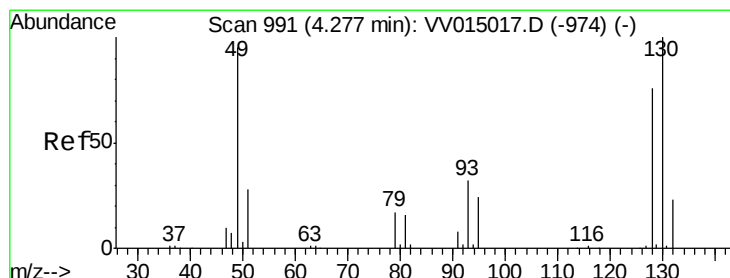
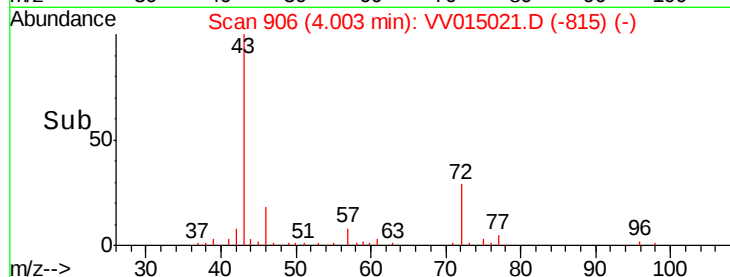
20000

10000

0

Time-->

3.90 4.00 4.10



#23

Bromochloromethane

Concen: 48.095 ug/L

RT: 4.27 min Scan# 990

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

Tgt Ion: 128 Resp: 66381

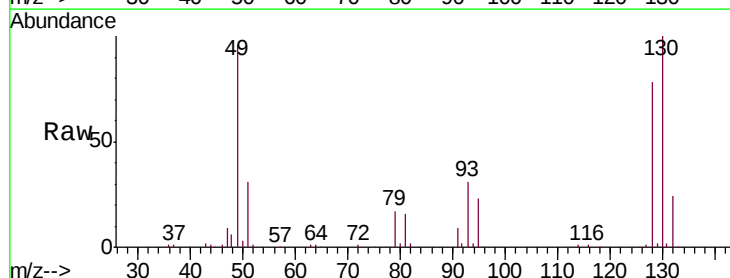
Ion Ratio Lower Upper

128 100

49 122.2 87.9 163.3

130 127.8 92.5 171.9

51 39.4 29.7 44.5



Abundance Ion 128.00 (127.70 to 128.70): VV015021.D (-898) (-)

Ion 49.00 (48.70 to 49.70): VV015021.D (-898) (-)

Ion 130.00 (129.70 to 130.70): VV015021.D (-898) (-)

Ion 51.00 (50.70 to 51.70): VV015021.D (-898) (-)

4.27

50000

40000

30000

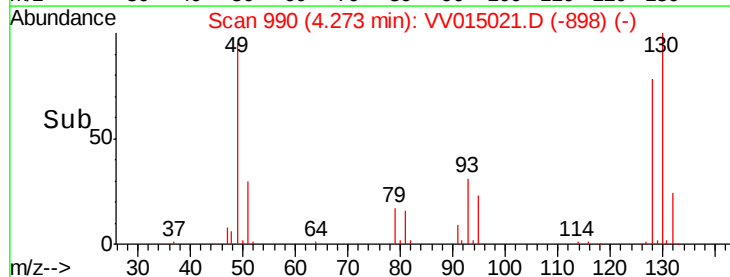
20000

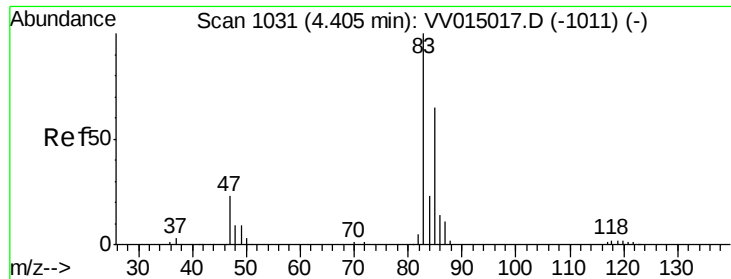
10000

0

Time-->

4.20 4.25 4.30 4.35

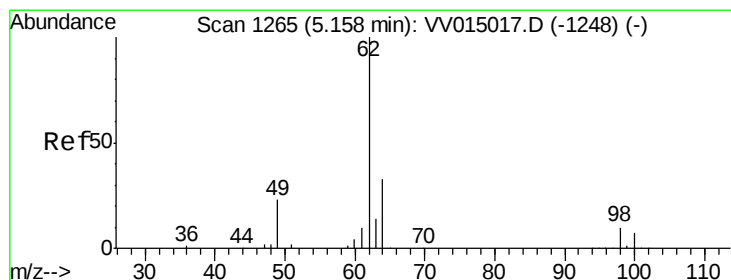
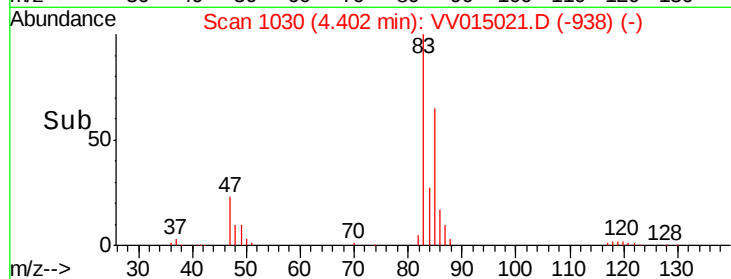
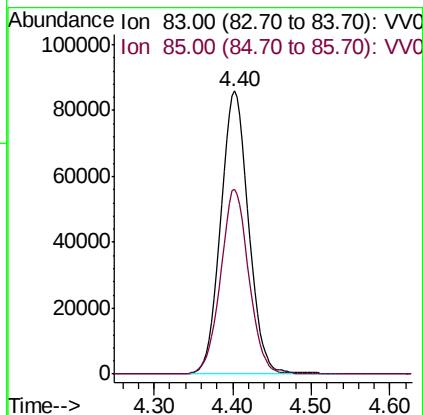
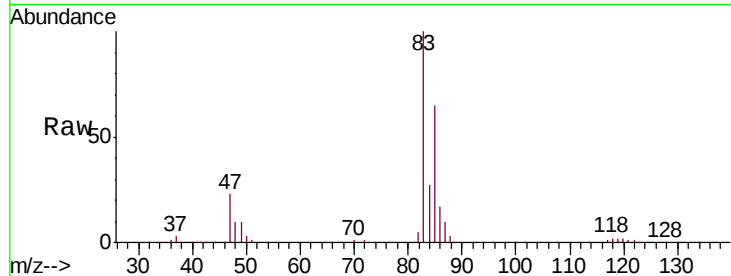




#25
Chloroform
Concen: 48.052 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VV015021.D
Acq: 18 Mar 2020 17:46

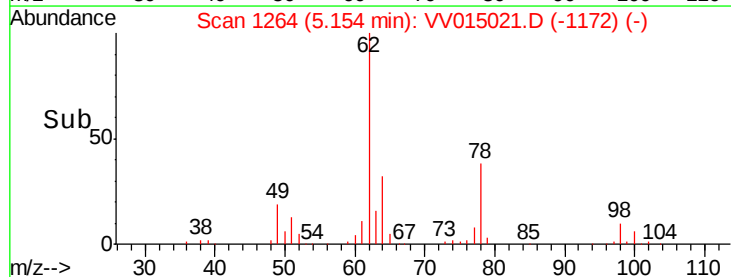
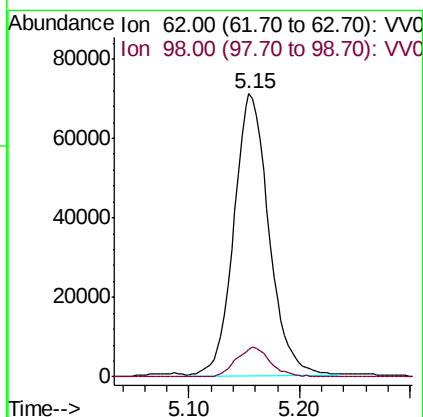
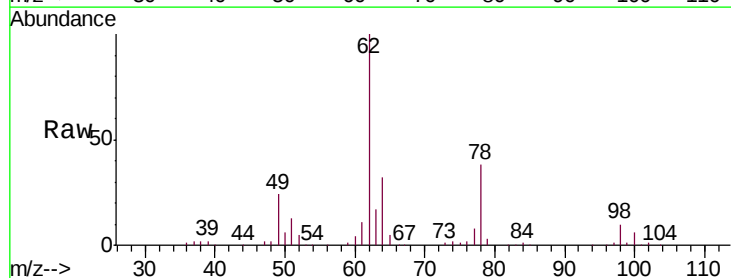
Instrument :
MSVOA_V
ClientSampleId :
VSTD05097

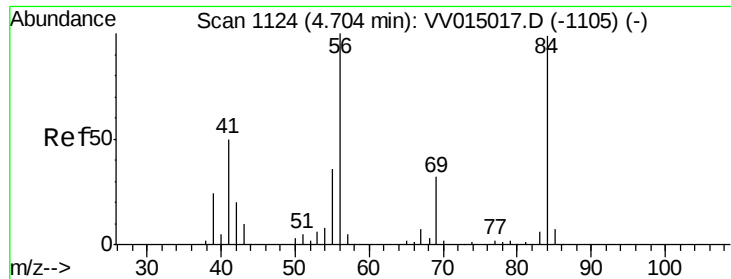
Tgt Ion: 83 Resp: 209686
Ion Ratio Lower Upper
83 100
85 65.2 45.4 84.4



#27
1,2-Dichloroethane
Concen: 47.767 ug/L
RT: 5.15 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VV015021.D
Acq: 18 Mar 2020 17:46

Tgt Ion: 62 Resp: 155655
Ion Ratio Lower Upper
62 100
98 9.8 7.8 11.8

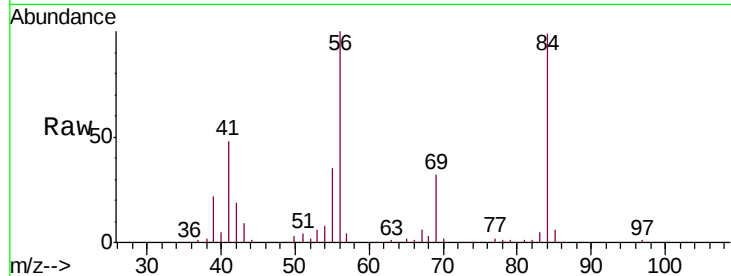




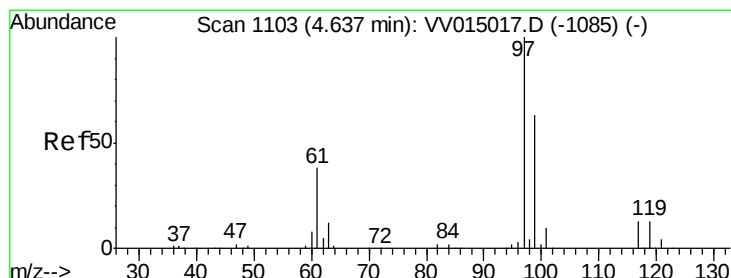
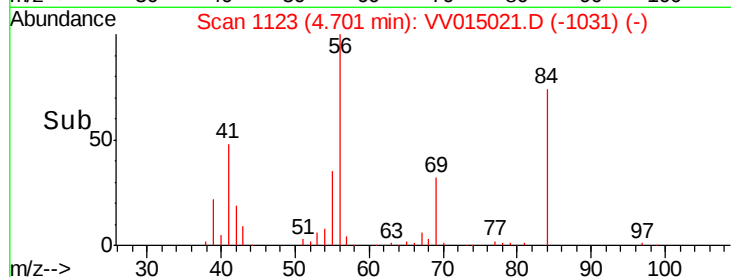
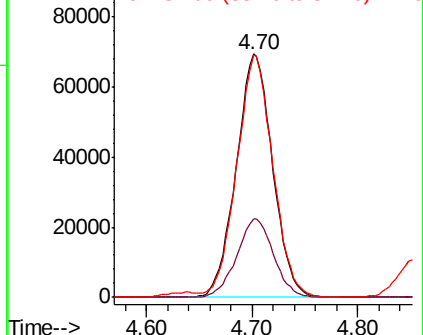
#29
Cyclohexane
Concen: 49.612 ug/L
RT: 4.70 min Scan# 1123
Delta R.T. -0.00 min
Lab File: VV015021.D
Acq: 18 Mar 2020 17:46

Instrument :
MSVOA_V
ClientSampleId :
VSTD05097

Tgt Ion: 56 Resp: 166158
Ion Ratio Lower Upper
56 100
69 32.6 25.8 38.6
84 99.2 80.0 120.0

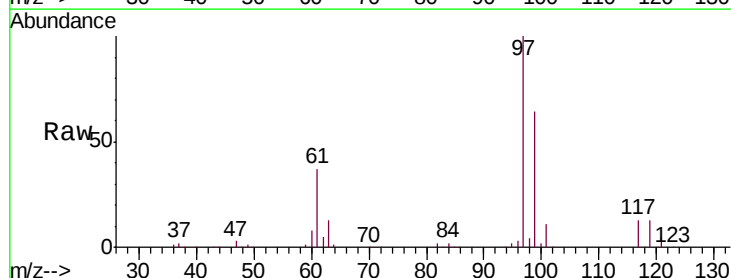


Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0

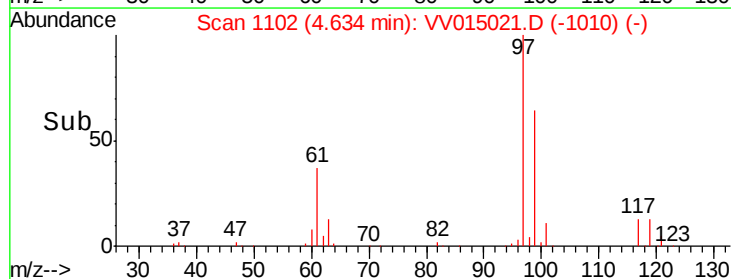
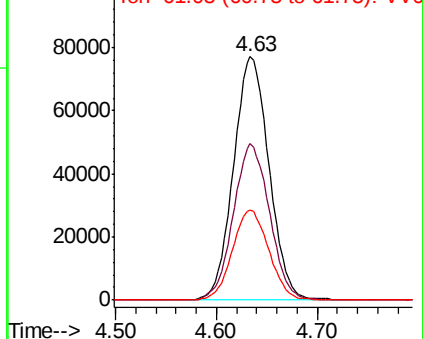


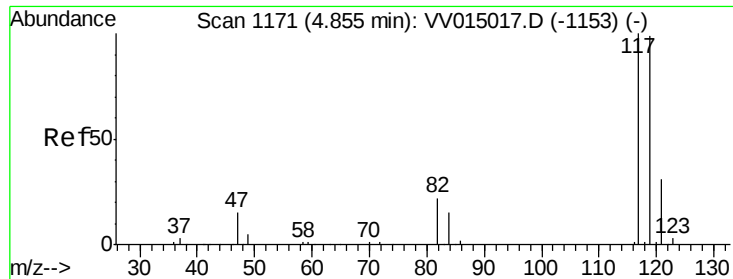
#30
1,1,1-Trichloroethane
Concen: 46.852 ug/L
RT: 4.63 min Scan# 1102
Delta R.T. -0.00 min
Lab File: VV015021.D
Acq: 18 Mar 2020 17:46

Tgt Ion: 97 Resp: 188542
Ion Ratio Lower Upper
97 100
99 65.5 51.1 76.7
61 38.0 30.5 45.7



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: 47.734 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

Instrument :

MSVOA_V

ClientSampleId :

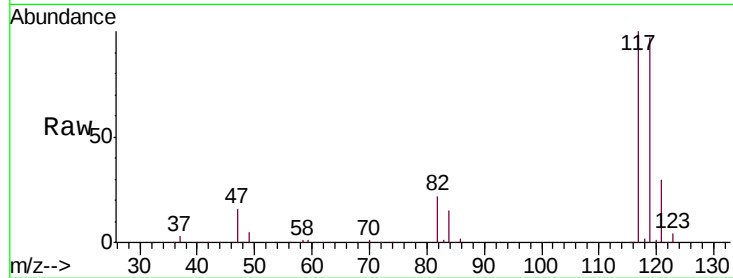
VSTD05097

Tgt Ion:117 Resp: 172625

Ion Ratio Lower Upper

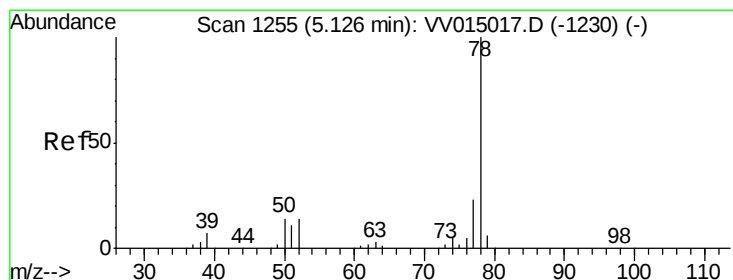
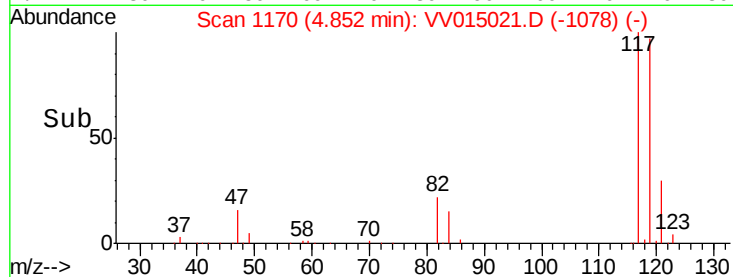
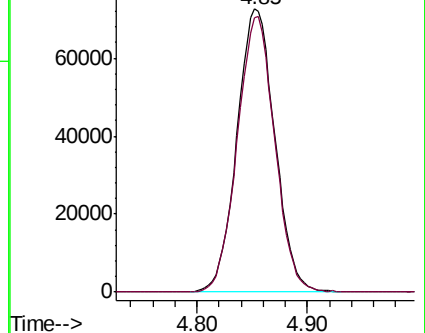
117 100

119 96.1 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 48.574 ug/L

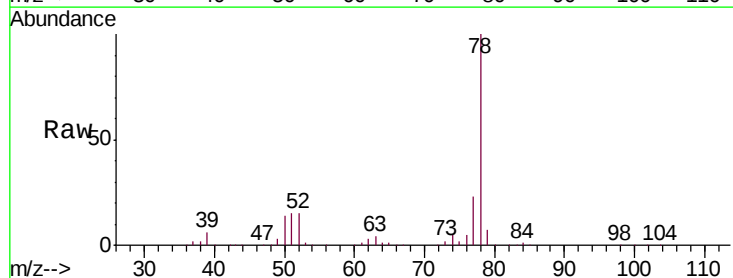
RT: 5.13 min Scan# 1255

Delta R.T. -0.00 min

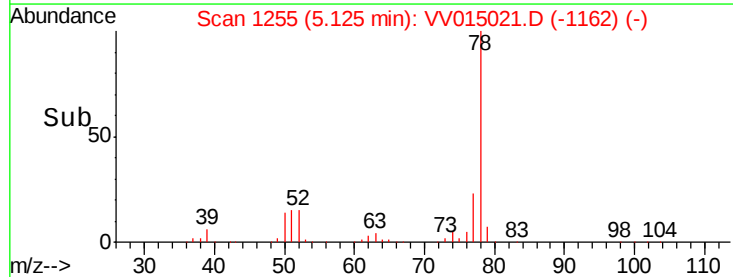
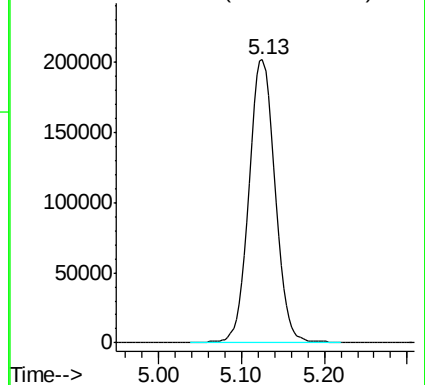
Lab File: VV015021.D

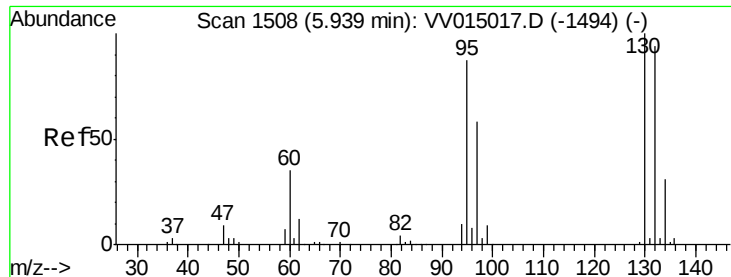
Acq: 18 Mar 2020 17:46

Tgt Ion: 78 Resp: 443554



Abundance Ion 78.00 (77.70 to 78.70): VV0

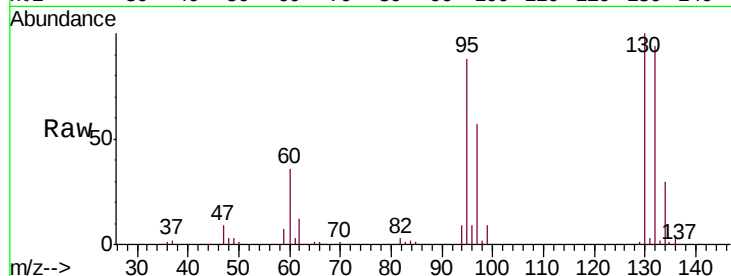




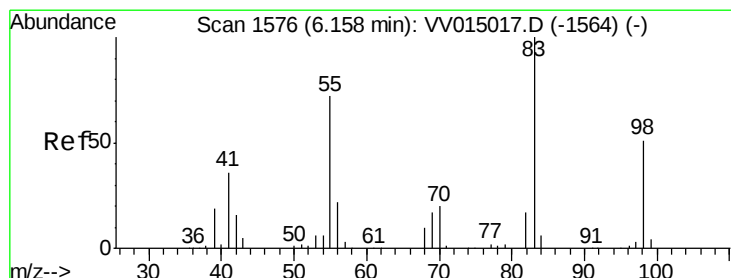
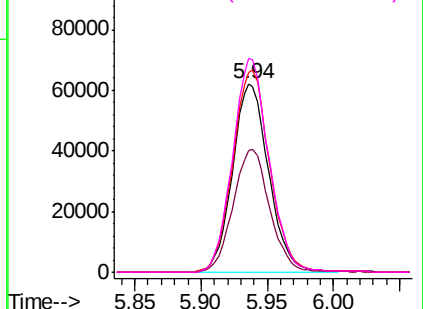
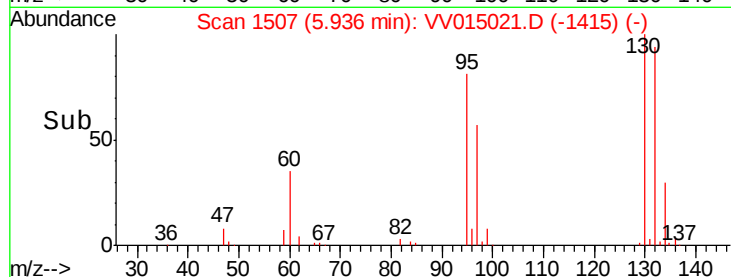
#34
 Trichloroethene
 Concen: 47.633 ug/L
 RT: 5.94 min Scan# 1507
 Delta R.T. -0.00 min
 Lab File: VV015021.D
 Acq: 18 Mar 2020 17:46

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05097

Tgt Ion: 95 Resp: 117832
 Ion Ratio Lower Upper
 95 100
 97 64.3 46.8 87.0
 132 106.0 76.2 141.4
 130 113.2 80.8 150.2

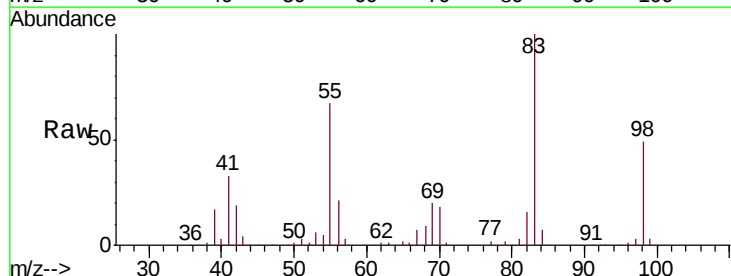


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

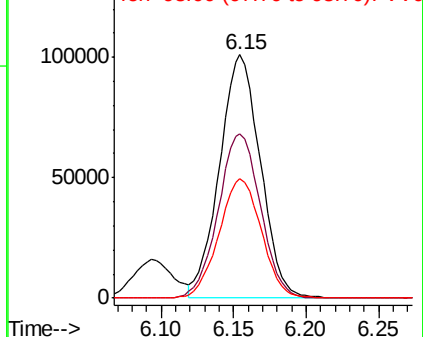
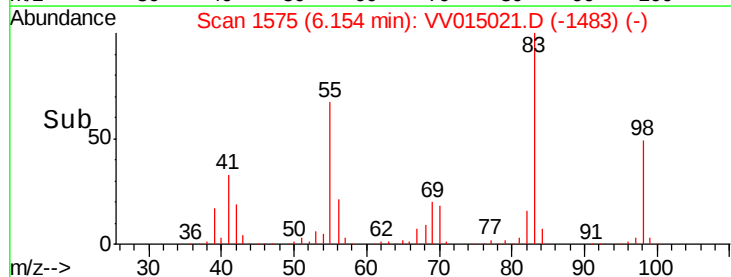


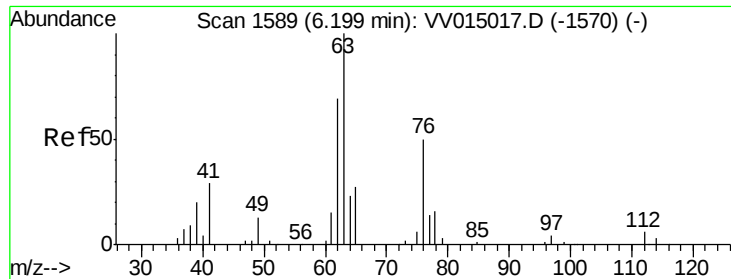
#35
 Methylcyclohexane
 Concen: 50.529 ug/L
 RT: 6.15 min Scan# 1575
 Delta R.T. -0.00 min
 Lab File: VV015021.D
 Acq: 18 Mar 2020 17:46

Tgt Ion: 83 Resp: 198347
 Ion Ratio Lower Upper
 83 100
 55 69.5 55.4 83.0
 98 50.7 40.6 61.0



Abundance Ion 83.00 (82.70 to 83.70): VV0
 Ion 55.00 (54.70 to 55.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0

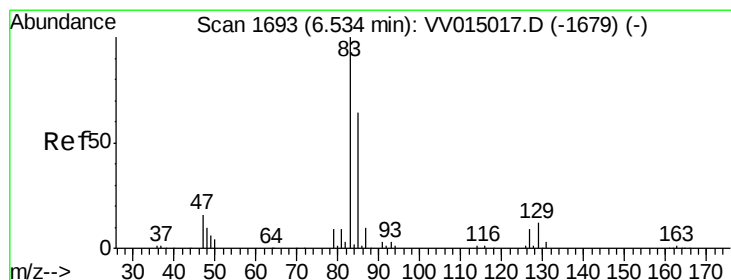
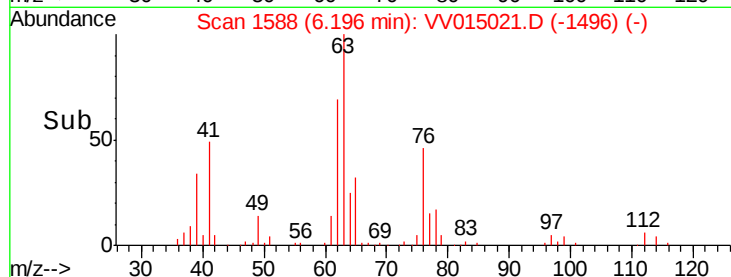
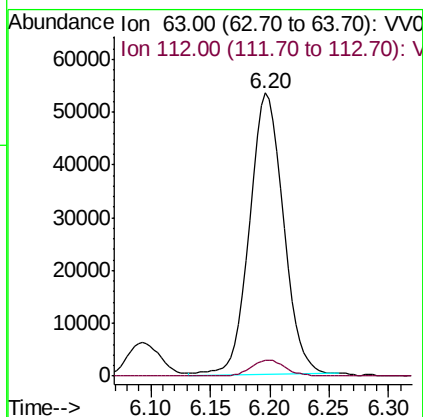
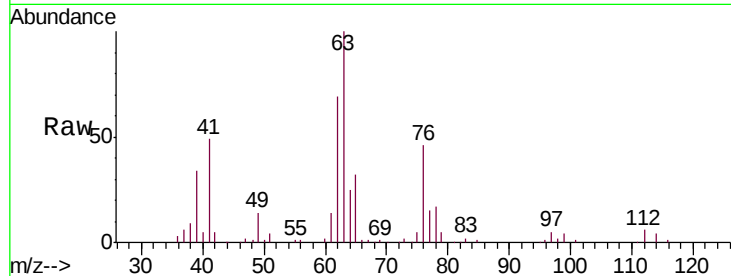




#37
 1,2-Dichloropropane
 Concen: 47.669 ug/L
 RT: 6.20 min Scan# 1588
 Delta R.T. -0.00 min
 Lab File: VV015021.D
 Acq: 18 Mar 2020 17:46

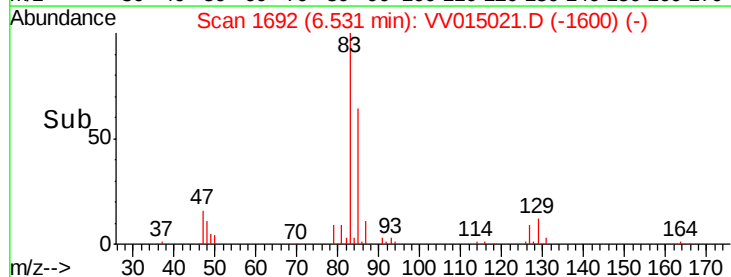
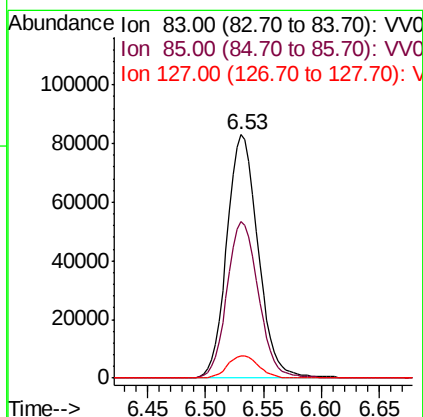
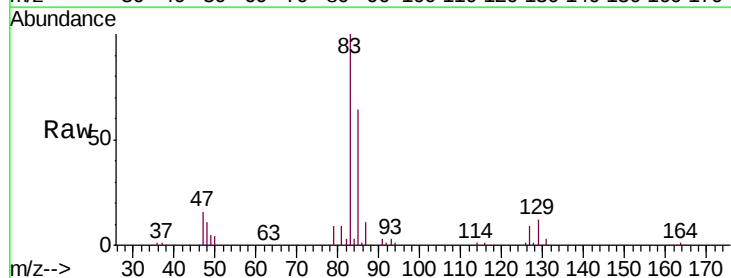
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05097

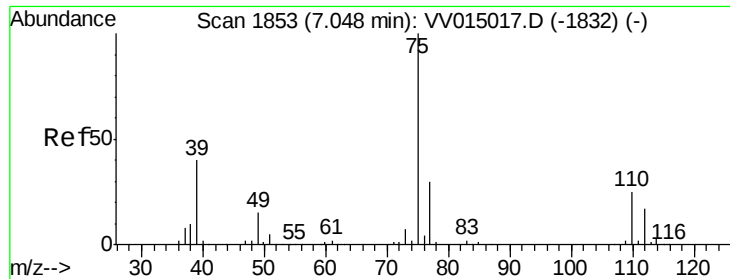
Tgt Ion: 63 Resp: 105266
 Ion Ratio Lower Upper
 63 100
 112 5.8 4.4 6.6



#38
 Bromodichloromethane
 Concen: 48.253 ug/L
 RT: 6.53 min Scan# 1692
 Delta R.T. -0.00 min
 Lab File: VV015021.D
 Acq: 18 Mar 2020 17:46

Tgt Ion: 83 Resp: 155400
 Ion Ratio Lower Upper
 83 100
 85 64.3 44.6 82.8
 127 9.3 7.4 11.2

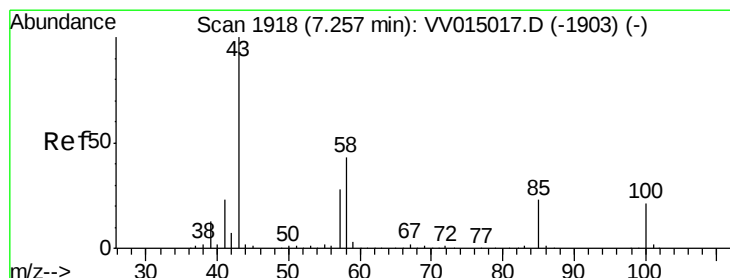
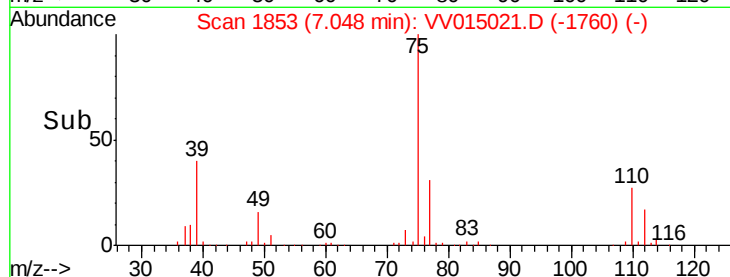
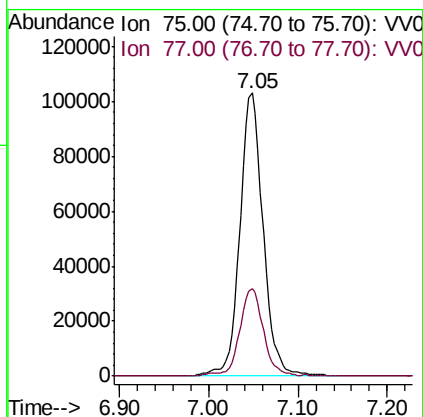
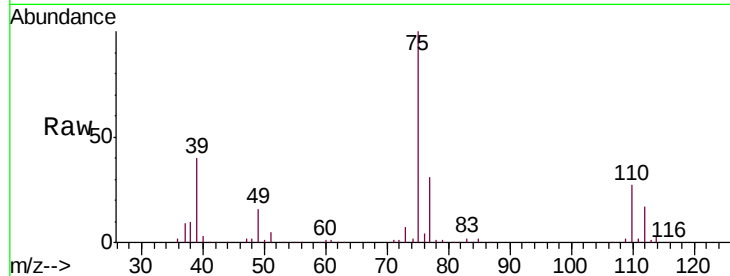




#39
 cis-1,3-Dichloropropene
 Concen: 50.556 ug/L
 RT: 7.05 min Scan# 1853
 Delta R.T. -0.00 min
 Lab File: VV015021.D
 Acq: 18 Mar 2020 17:46

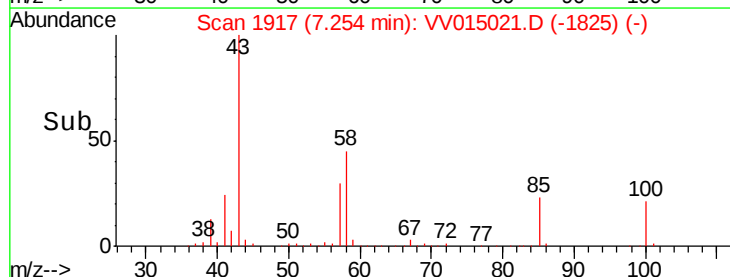
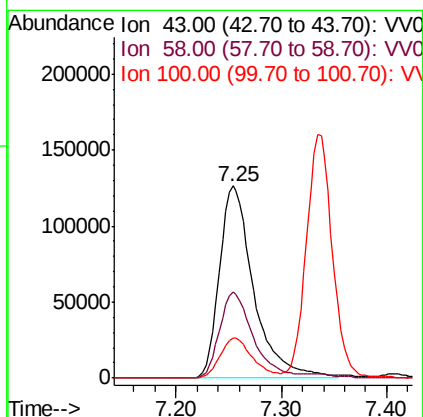
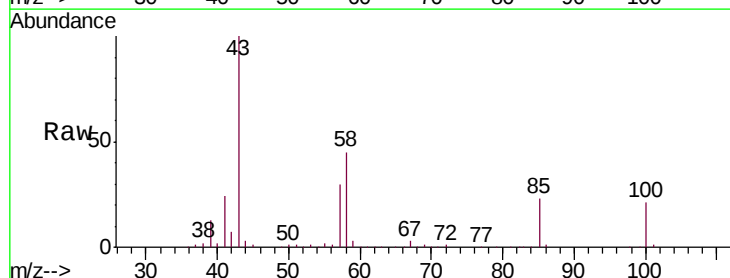
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05097

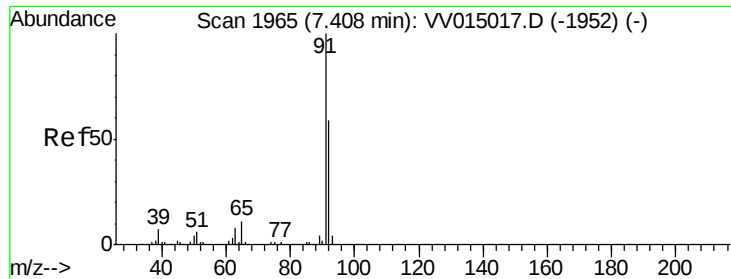
Tgt Ion: 75 Resp: 186938
 Ion Ratio Lower Upper
 75 100
 77 30.9 21.1 39.3



#40
 4-Methyl-2-pentanone
 Concen: 92.999 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. -0.00 min
 Lab File: VV015021.D
 Acq: 18 Mar 2020 17:46

Tgt Ion: 43 Resp: 284481
 Ion Ratio Lower Upper
 43 100
 58 44.4 34.5 51.7
 100 19.8 15.7 23.5





#42

Toluene

Concen: 49.609 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

Instrument :

MSVOA_V

ClientSampleId :

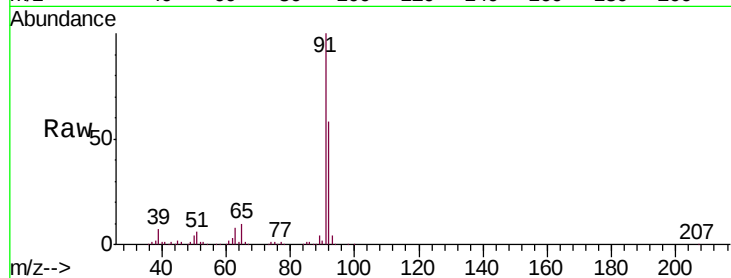
VSTD05097

Tgt Ion: 91 Resp: 512111

Ion Ratio Lower Upper

91 100

92 58.3 41.2 76.4



Abundance Ion 91.00 (90.70 to 91.70): VV015017.D (-1952) (-)

Ion 92.00 (91.70 to 92.70): VV015017.D (-1952) (-)

7.41

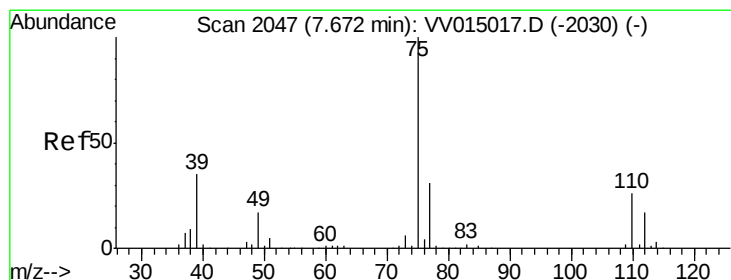
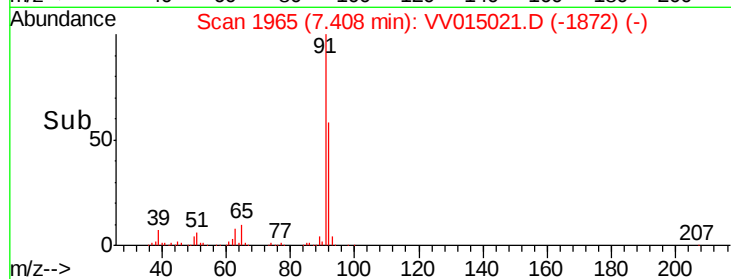
300000

200000

100000

0

Time--> 7.30 7.40 7.50



#44

trans-1,3-Dichloropropene

Concen: 49.769 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. -0.00 min

Lab File: VV015021.D

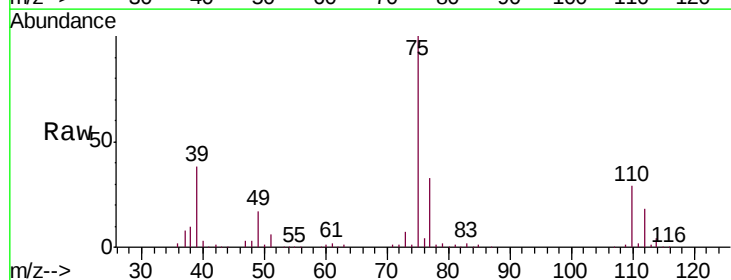
Acq: 18 Mar 2020 17:46

Tgt Ion: 75 Resp: 166694

Ion Ratio Lower Upper

75 100

77 33.5 21.7 40.3



Abundance Ion 75.00 (74.70 to 75.70): VV015017.D (-2030) (-)

Ion 77.00 (76.70 to 77.70): VV015017.D (-2030) (-)

7.67

100000

80000

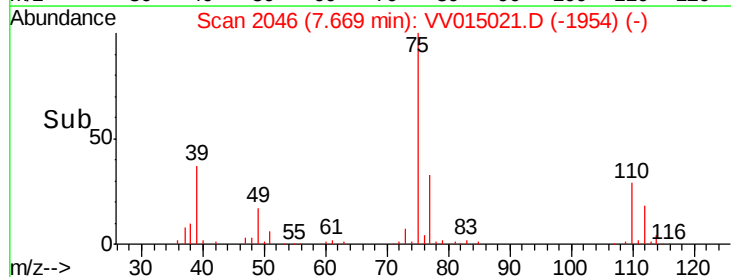
60000

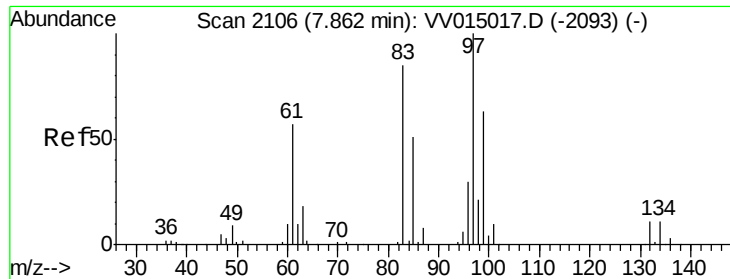
40000

20000

0

Time--> 7.60 7.70 7.80

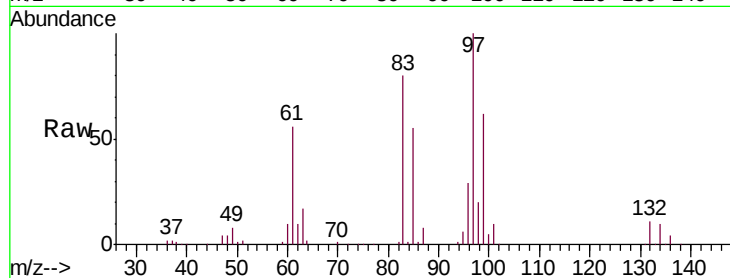




#45
 1,1,2-Trichloroethane
 Concen: 48.026 ug/L
 RT: 7.86 min Scan# 2105
 Delta R.T. -0.00 min
 Lab File: VV015021.D
 Acq: 18 Mar 2020 17:46

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05097

Tgt Ion:	97	Resp:	115614
Ion	Ratio	Lower	Upper
97	100		
99	62.3	44.3	82.3
83	80.4	59.5	110.5
85	55.5	35.7	66.3



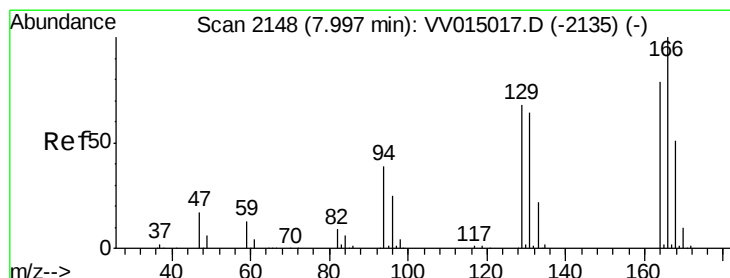
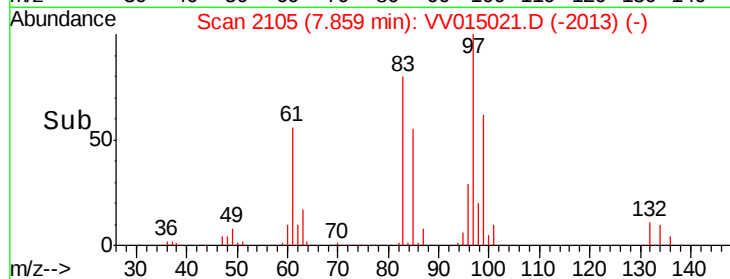
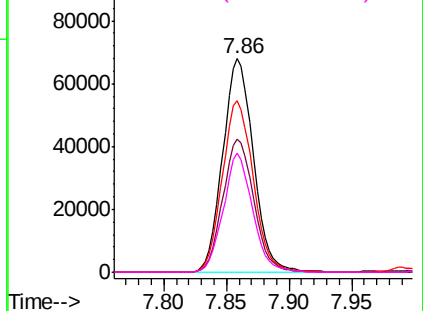
Abundance

Ion 97.00 (96.70 to 97.70): VV015017.D (-2093) (-)

Ion 99.00 (98.70 to 99.70): VV015017.D (-2093) (-)

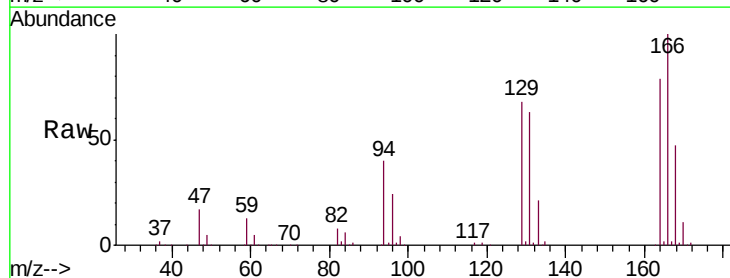
Ion 83.00 (82.70 to 83.70): VV015017.D (-2093) (-)

Ion 85.00 (84.70 to 85.70): VV015017.D (-2093) (-)



#46
 Tetrachloroethene
 Concen: 49.827 ug/L
 RT: 7.99 min Scan# 2147
 Delta R.T. -0.00 min
 Lab File: VV015021.D
 Acq: 18 Mar 2020 17:46

Tgt Ion:	164	Resp:	117037
Ion	Ratio	Lower	Upper
164	100		
129	85.9	60.4	112.2
131	79.6	57.0	105.8
166	125.9	88.5	164.3



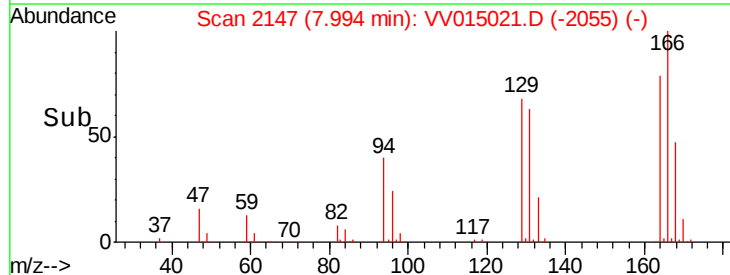
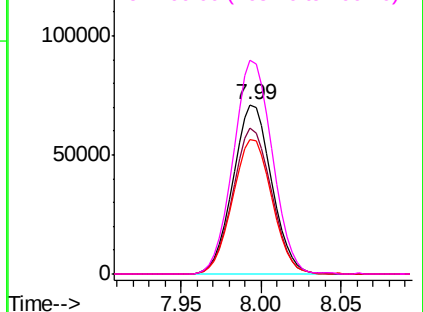
Abundance

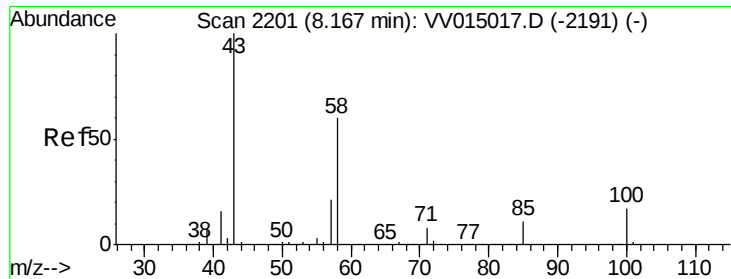
Ion 164.00 (163.70 to 164.70): VV015017.D (-2135) (-)

Ion 129.00 (128.70 to 129.70): VV015017.D (-2135) (-)

Ion 131.00 (130.70 to 131.70): VV015017.D (-2135) (-)

Ion 166.00 (165.70 to 166.70): VV015017.D (-2135) (-)

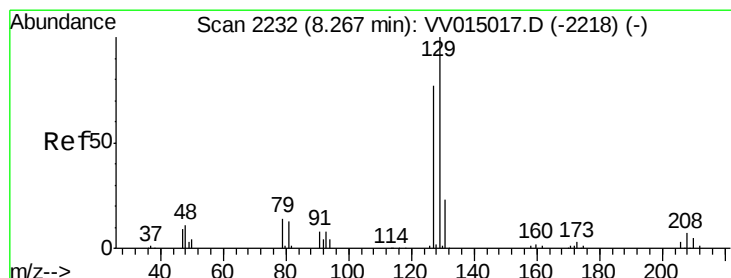
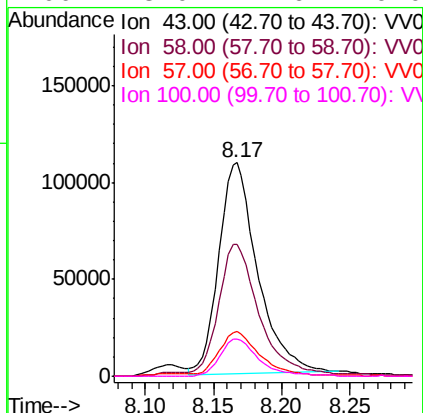
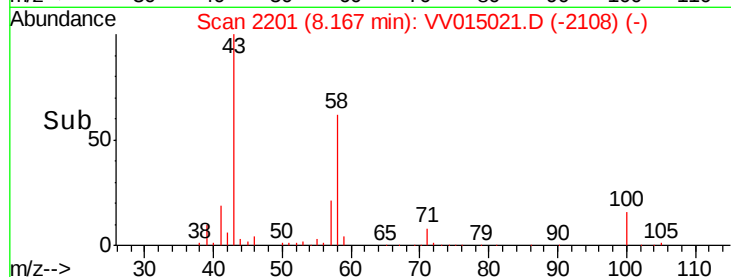
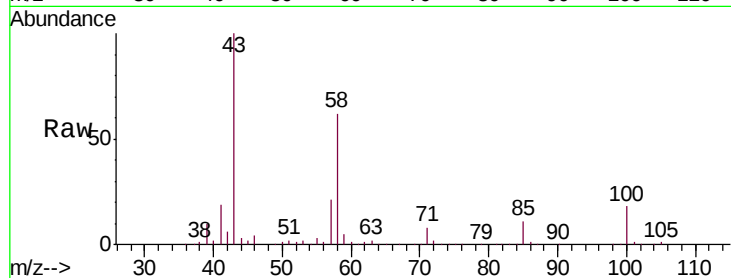




#48
2-Hexanone
Concen: 94.518 ug/L
RT: 8.17 min Scan# 2201
Delta R.T. -0.00 min
Lab File: VV015021.D
Acq: 18 Mar 2020 17:46

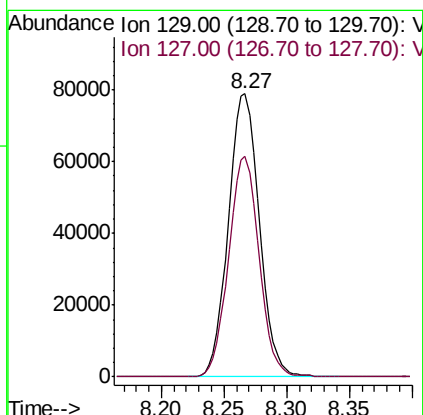
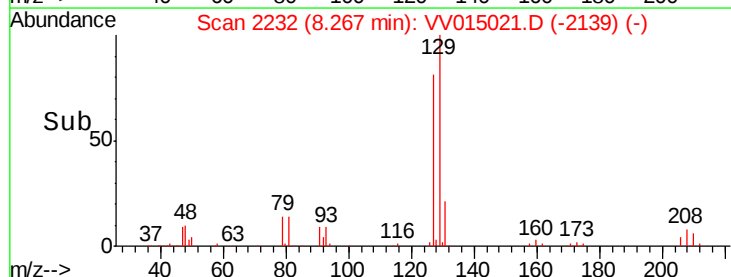
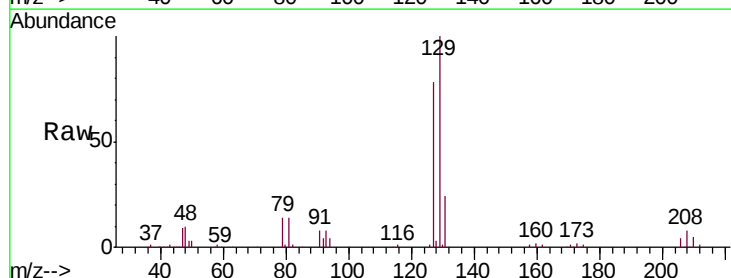
Instrument :
MSVOA_V
ClientSampleId :
VSTD05097

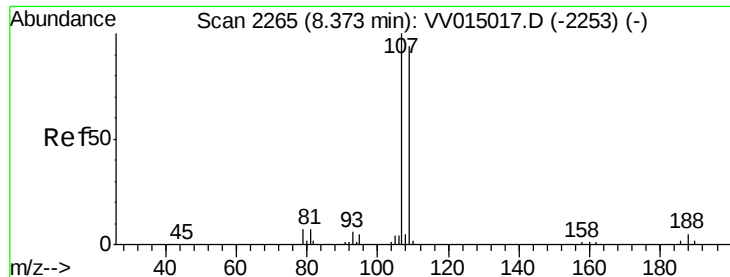
Tgt Ion: 43 Resp: 215971
Ion Ratio Lower Upper
43 100
58 65.9 48.2 72.2
57 21.0 15.8 23.6
100 18.0 12.6 19.0



#49
Dibromochloromethane
Concen: 48.593 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. -0.00 min
Lab File: VV015021.D
Acq: 18 Mar 2020 17:46

Tgt Ion: 129 Resp: 135955
Ion Ratio Lower Upper
129 100
127 77.9 53.8 99.8

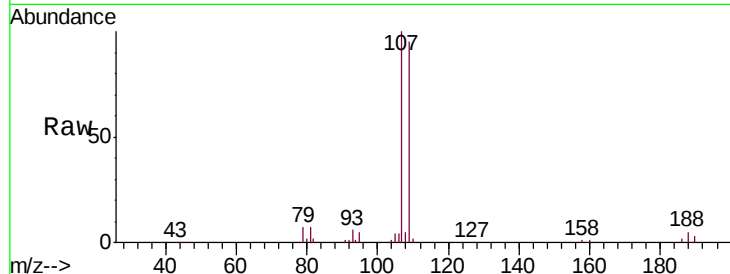




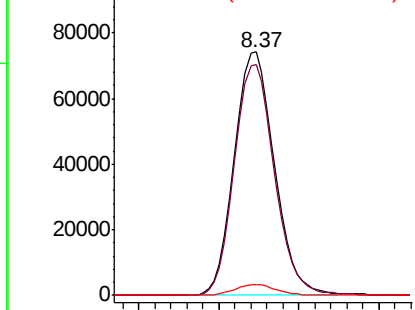
#50
1,2-Dibromoethane
Concen: 47.294 ug/L
RT: 8.37 min Scan# 2265
Delta R.T. -0.00 min
Lab File: VV015021.D
Acq: 18 Mar 2020 17:46

Instrument :
MSVOA_V
ClientSampleId :
VSTD05097

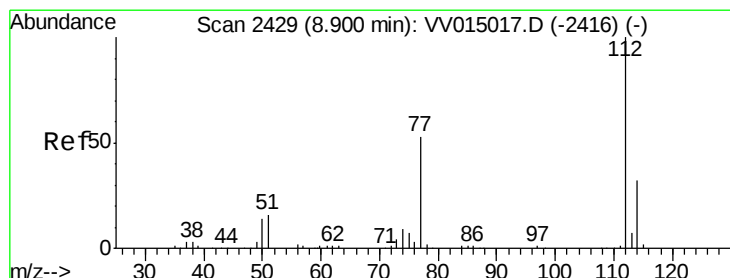
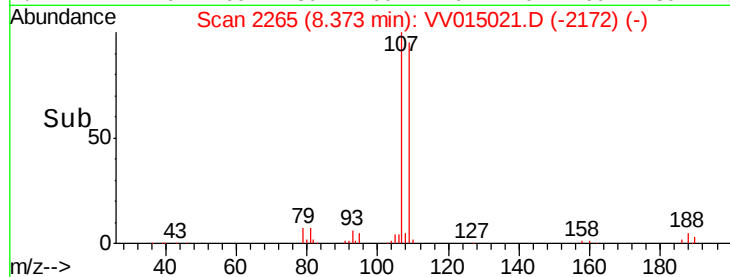
Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.6	66.0	122.6
188	4.6	3.9	5.9



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

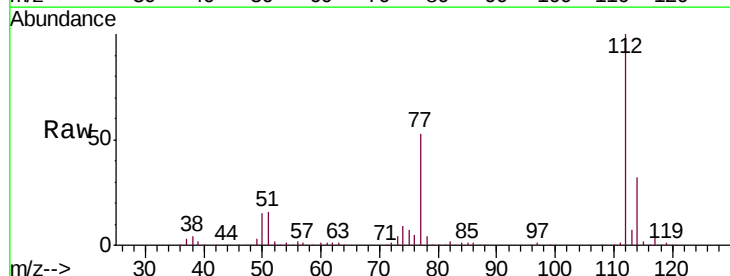


Time-->

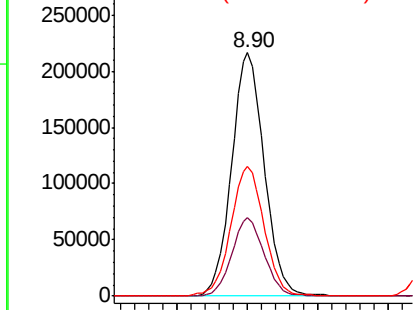


#51
Chlorobenzene
Concen: 48.282 ug/L
RT: 8.90 min Scan# 2429
Delta R.T. -0.00 min
Lab File: VV015021.D
Acq: 18 Mar 2020 17:46

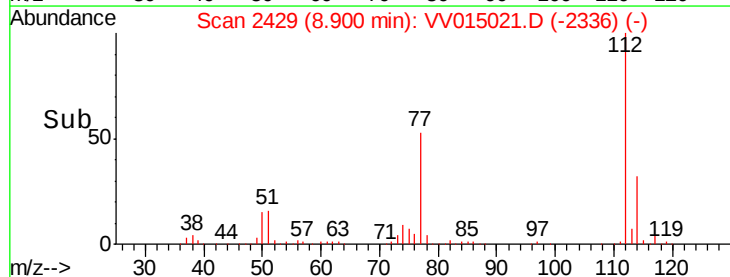
Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.4	41.6
77	53.0	42.9	64.3

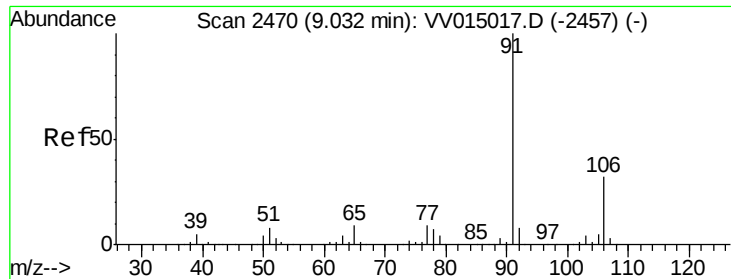


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): VV0



Time-->





#52

Ethylbenzene

Concen: 49.579 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

Instrument :

MSVOA_V

ClientSampleId :

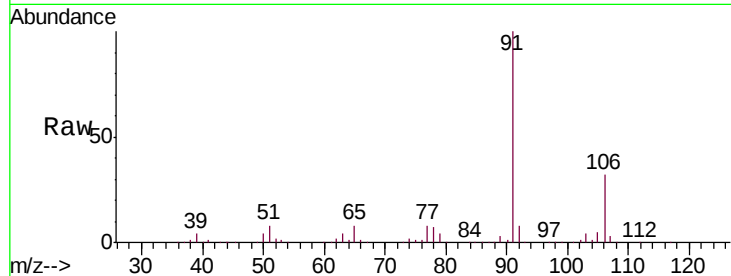
VSTD05097

Tgt Ion: 91 Resp: 581369

Ion Ratio Lower Upper

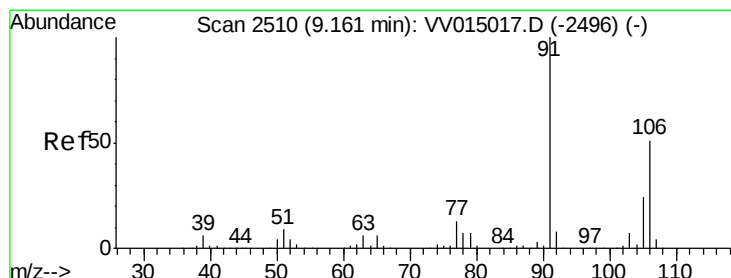
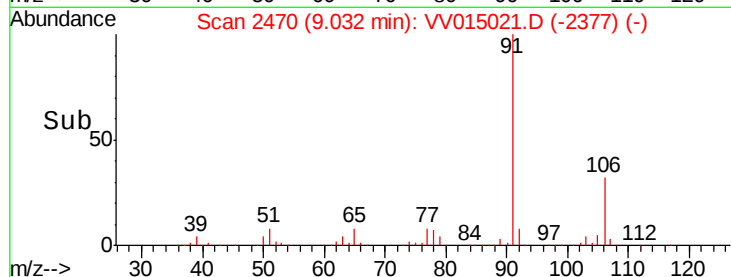
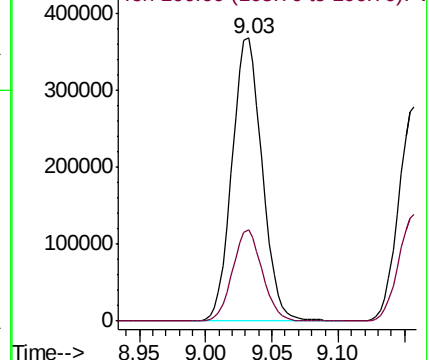
91 100

106 32.2 22.3 41.5



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 106.00 (105.70 to 106.70): V



#53

m,p-Xylene

Concen: 50.002 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV015021.D

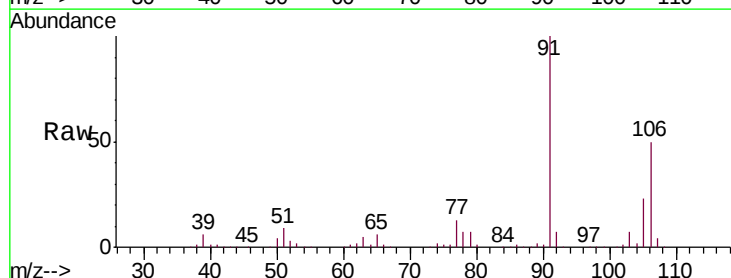
Acq: 18 Mar 2020 17:46

Tgt Ion: 106 Resp: 229545

Ion Ratio Lower Upper

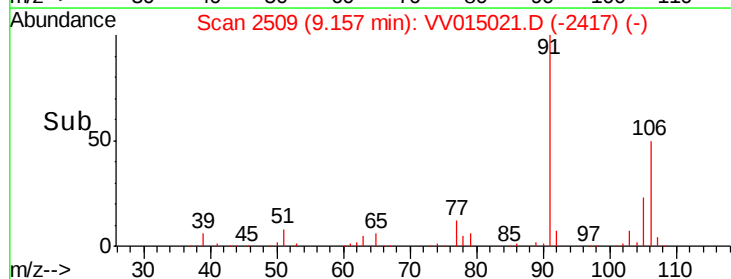
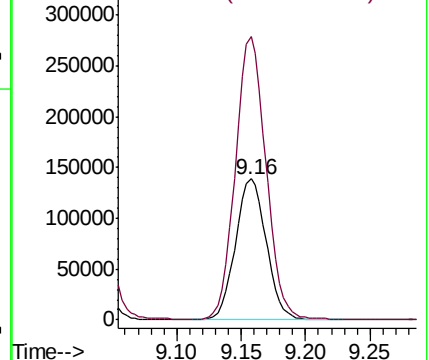
106 100

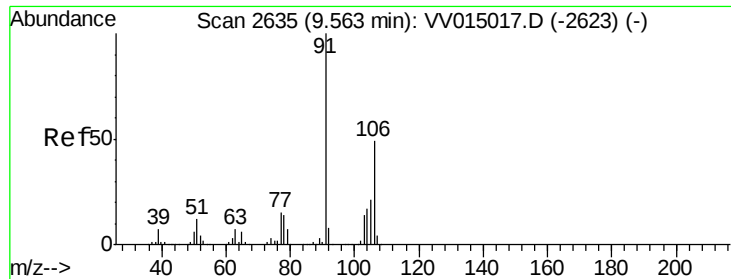
91 200.5 137.0 254.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#54

o-xylene

Concen: 50.278 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

Instrument :

MSVOA_V

ClientSampleId :

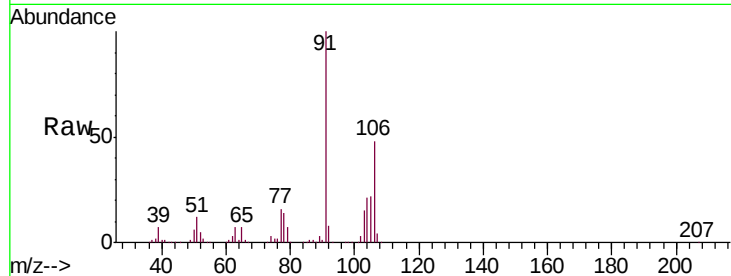
VSTD05097

Tgt Ion:106 Resp: 228572

Ion Ratio Lower Upper

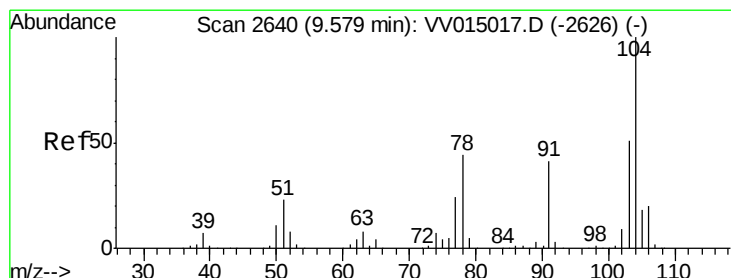
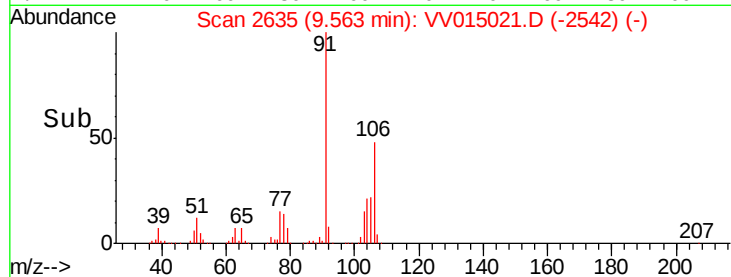
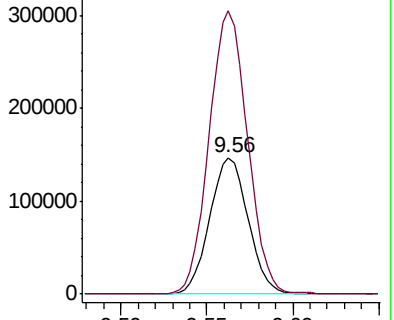
106 100

91 207.0 144.3 268.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 51.369 ug/L

RT: 9.58 min Scan# 2640

Delta R.T. -0.00 min

Lab File: VV015021.D

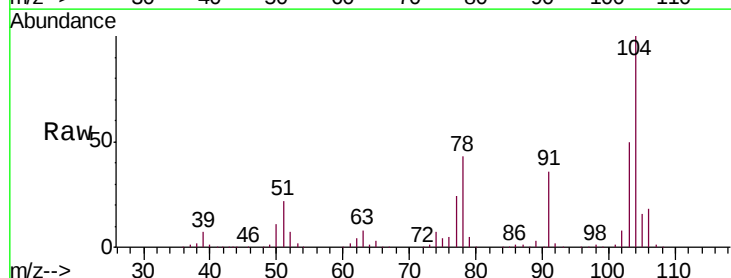
Acq: 18 Mar 2020 17:46

Tgt Ion:104 Resp: 392208

Ion Ratio Lower Upper

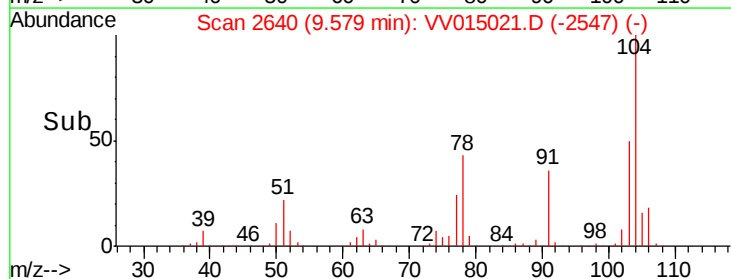
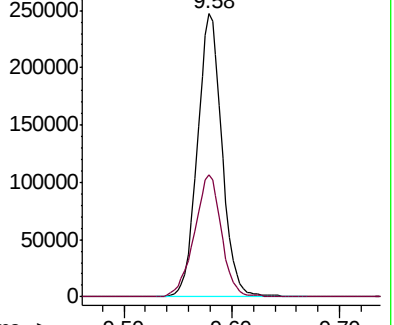
104 100

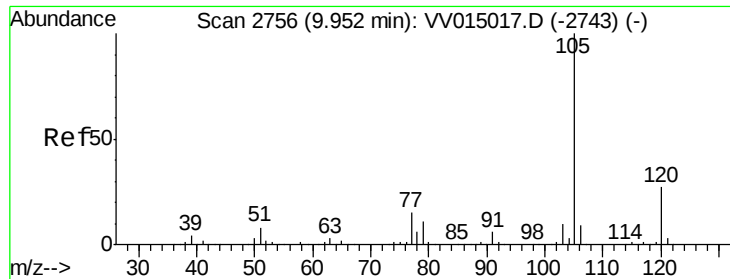
78 43.1 30.7 56.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 51.184 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

Instrument :

MSVOA_V

ClientSampled :

VSTD05097

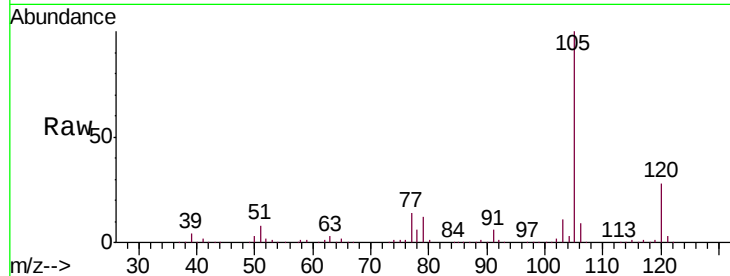
Tgt Ion: 105 Resp: 606042

Ion Ratio Lower Upper

105 100

120 26.9 21.8 32.6

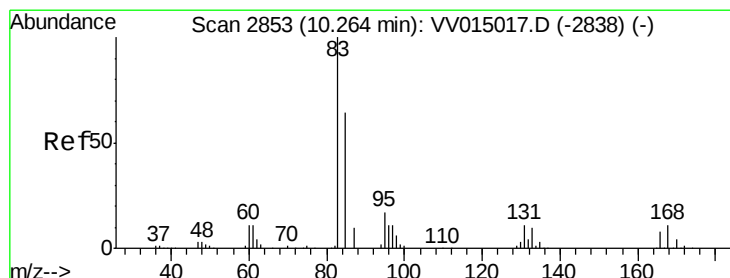
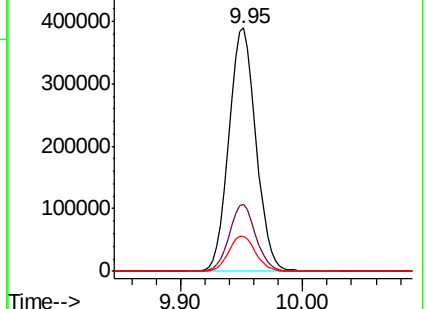
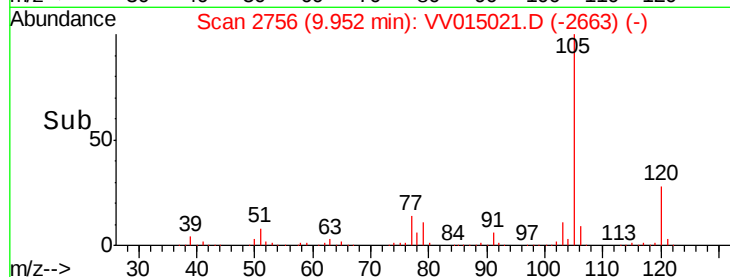
77 14.4 11.7 17.5



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: 46.918 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

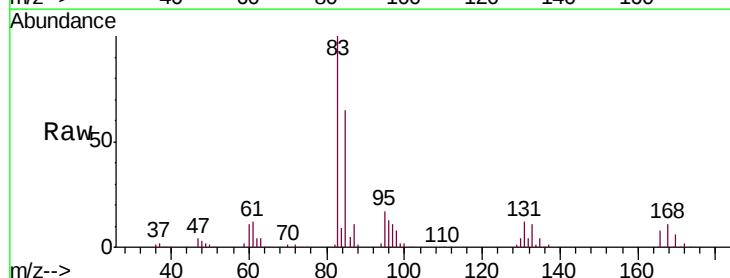
Tgt Ion: 83 Resp: 183713

Ion Ratio Lower Upper

83 100

85 65.0 44.9 83.5

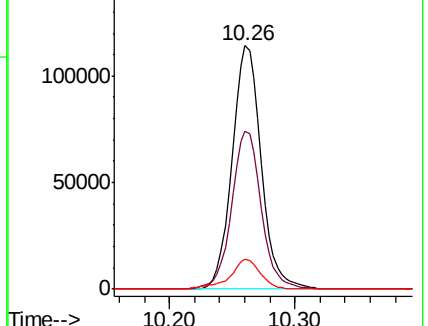
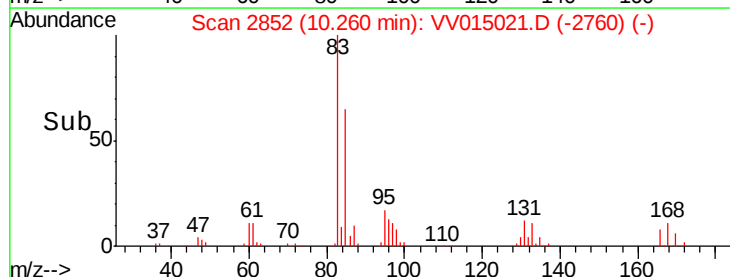
131 12.3 9.3 13.9

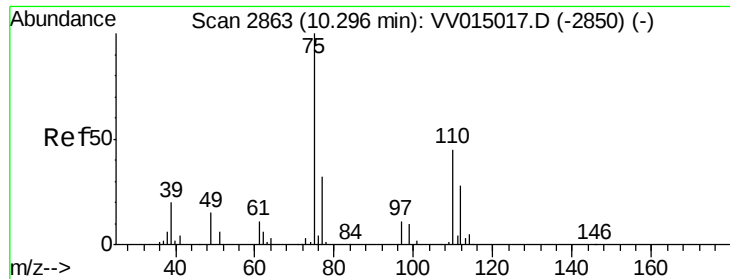


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 47.153 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

Instrument :

MSVOA_V

ClientSampleId :

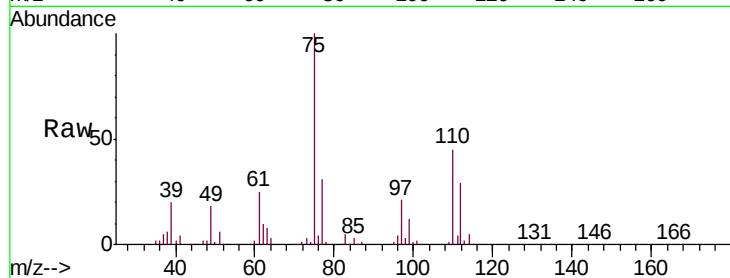
VSTD05097

Tgt Ion: 75 Resp: 146347

Ion Ratio Lower Upper

75 100

77 31.7 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VV015017.D (-2850) (-)

Ion 77.00 (76.70 to 77.70): VV015017.D (-2850) (-)

10.29

80000

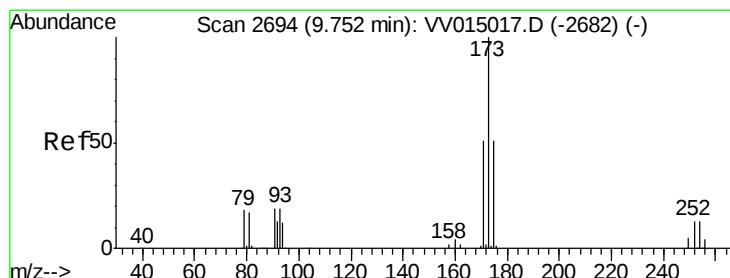
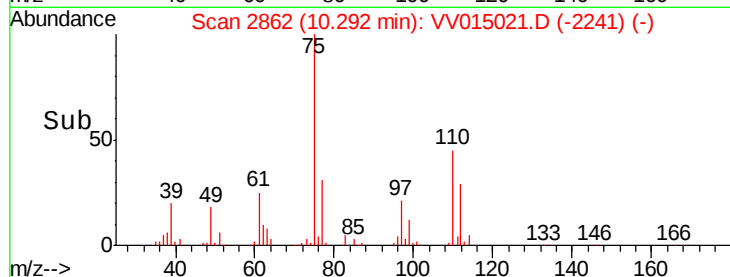
60000

40000

20000

0

Time-->



#61

Bromoform

Concen: 49.693 ug/L

RT: 9.75 min Scan# 2693

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

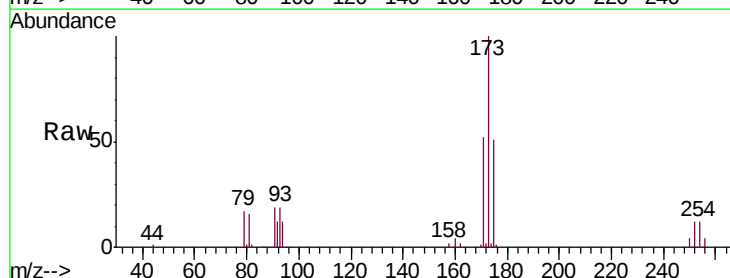
Tgt Ion: 173 Resp: 101503

Ion Ratio Lower Upper

173 100

175 49.0 39.5 59.3

254 12.5 10.1 15.1



Abundance Ion 173.00 (172.70 to 173.70): VV015017.D (-2682) (-)

Ion 175.00 (174.70 to 175.70): VV015017.D (-2682) (-)

Ion 254.00 (253.70 to 254.70): VV015017.D (-2682) (-)

9.75

80000

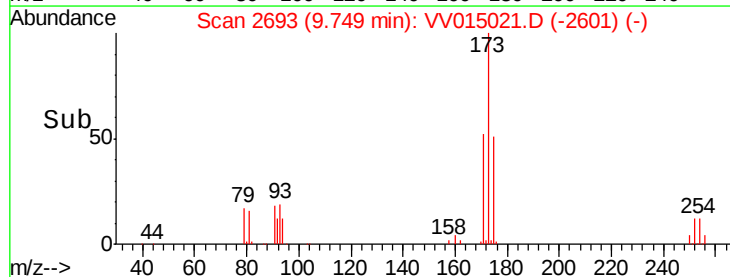
60000

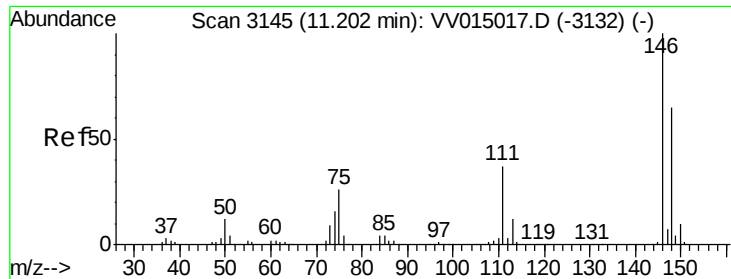
40000

20000

0

Time-->

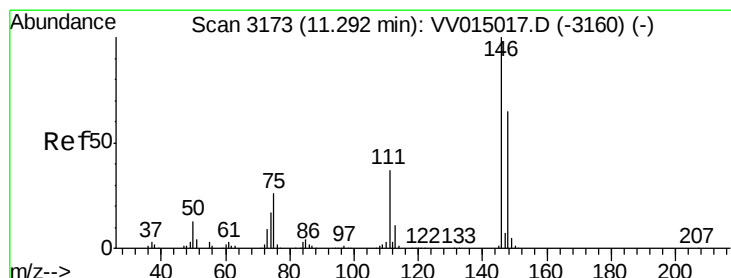
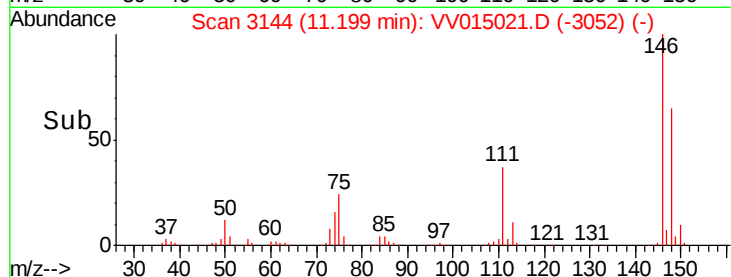
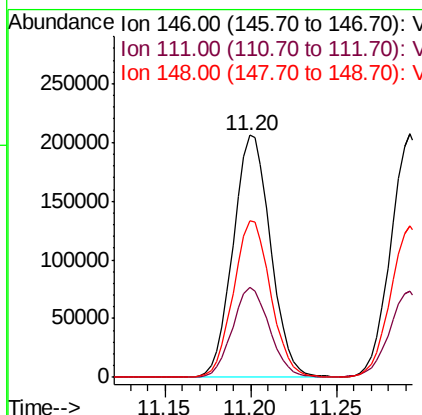
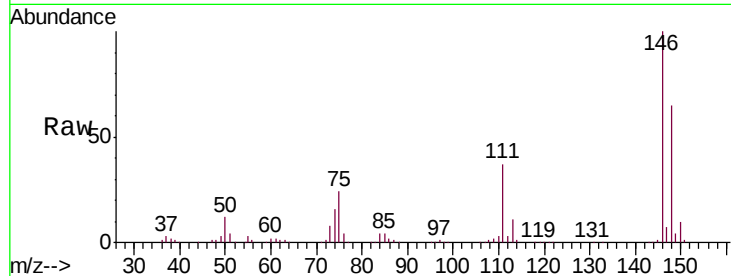




#62
 1,3-Dichlorobenzene
 Concen: 50.159 ug/L
 RT: 11.20 min Scan# 3144
 Delta R.T. -0.00 min
 Lab File: VV015021.D
 Acq: 18 Mar 2020 17:46

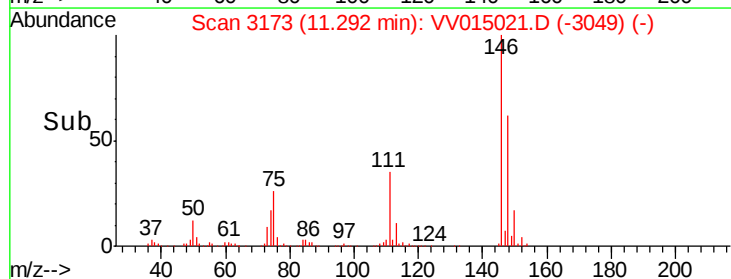
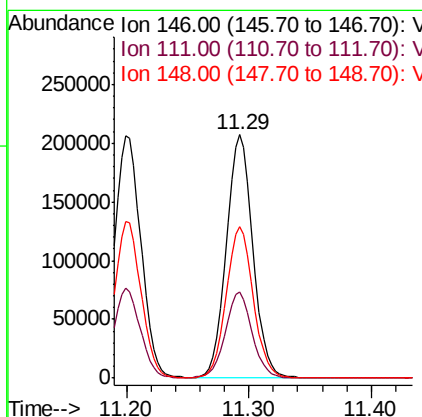
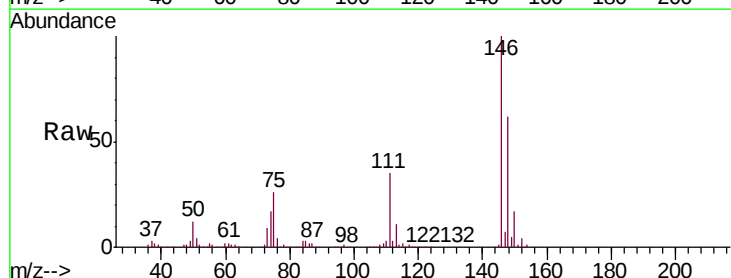
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05097

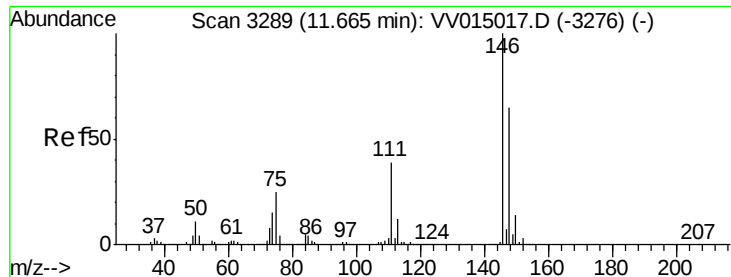
Tgt Ion:146 Resp: 311899
 Ion Ratio Lower Upper
 146 100
 111 36.9 25.7 47.7
 148 64.7 45.4 84.4



#63
 1,4-Dichlorobenzene
 Concen: 48.806 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. -0.00 min
 Lab File: VV015021.D
 Acq: 18 Mar 2020 17:46

Tgt Ion:146 Resp: 315906
 Ion Ratio Lower Upper
 146 100
 111 35.4 25.8 48.0
 148 62.0 45.7 84.9





#65

1,2-Dichlorobenzene

Concen: 46.620 ug/L

RT: 11.66 min Scan# 3288

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD05097

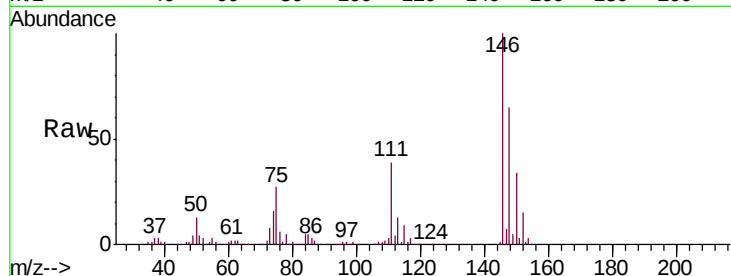
Tgt Ion:146 Resp: 307913

Ion Ratio Lower Upper

146 100

111 39.0 31.5 47.3

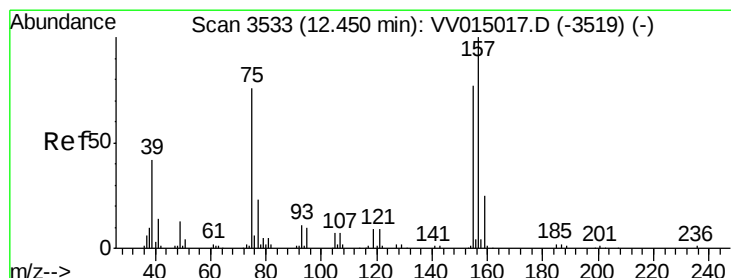
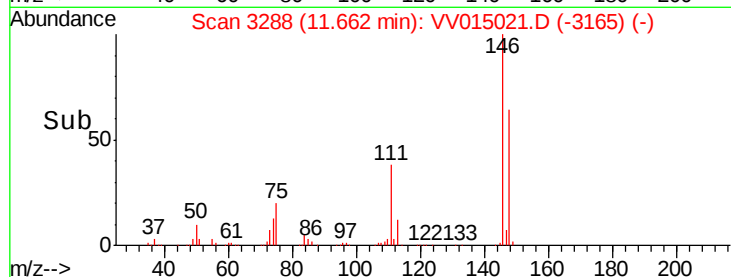
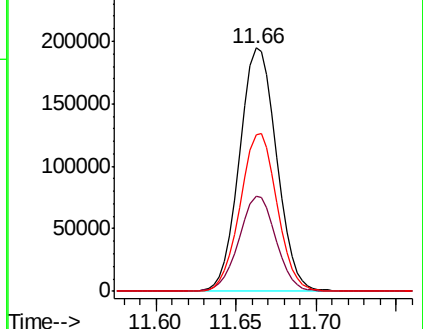
148 64.6 51.7 77.5



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: 45.737 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

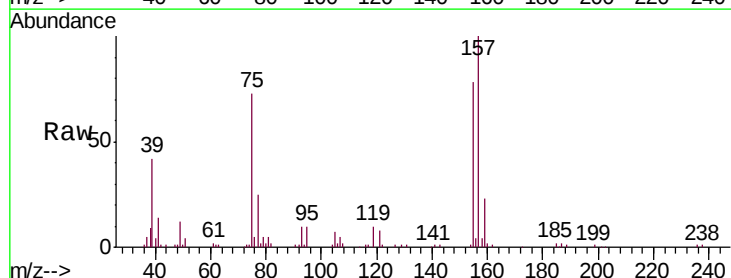
Tgt Ion: 75 Resp: 42217

Ion Ratio Lower Upper

75 100

155 106.3 80.6 121.0

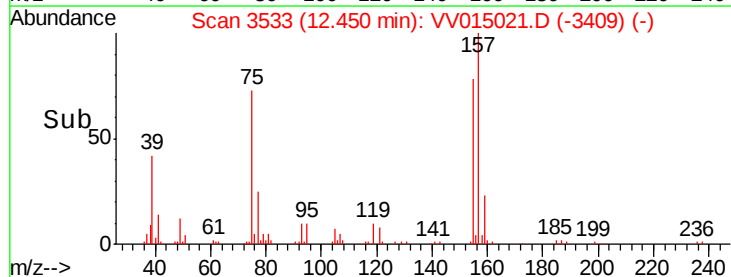
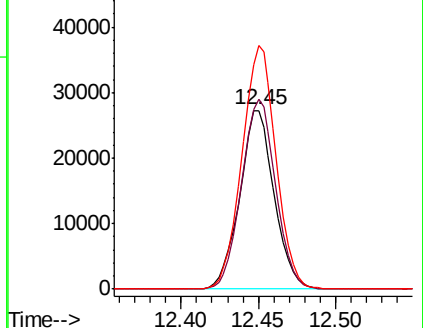
157 136.2 104.6 157.0

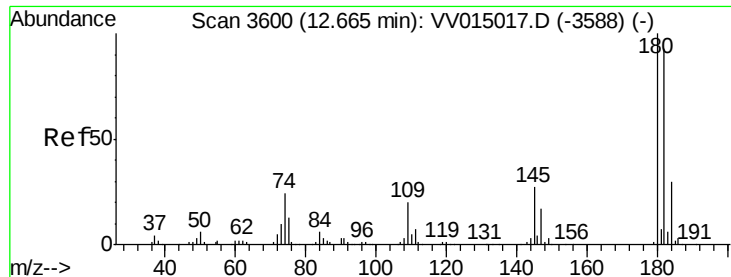


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

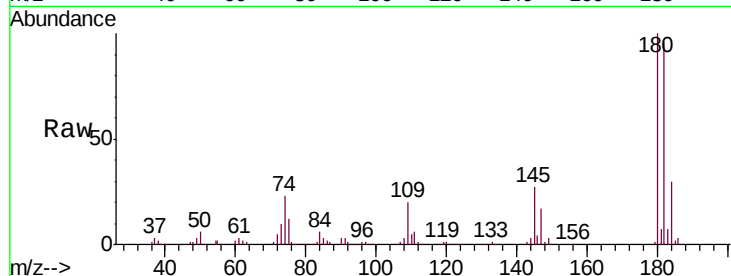




#67
 1,3,5-Trichlorobenzene
 Concen: 51.719 ug/L
 RT: 12.67 min Scan# 3600
 Delta R.T. -0.00 min
 Lab File: VV015021.D
 Acq: 18 Mar 2020 17:46

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05097

Tgt Ion:	180	Resp:	254452
Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.2	112.8
184	30.7	23.9	35.9
145	27.2	22.0	33.0



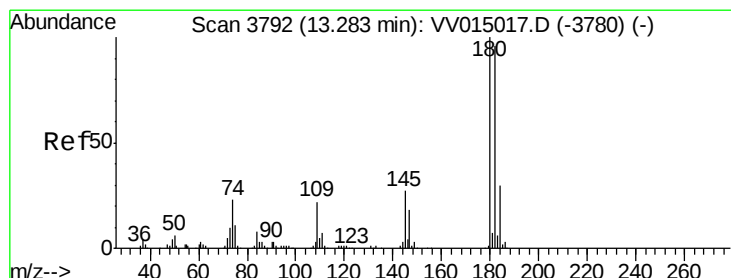
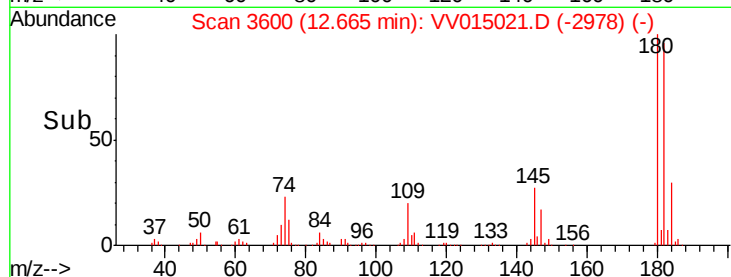
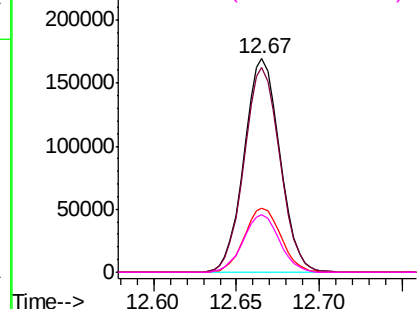
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

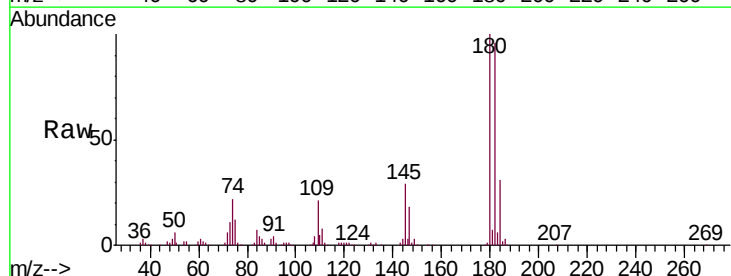
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 50.977 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. -0.00 min
 Lab File: VV015021.D
 Acq: 18 Mar 2020 17:46

Tgt Ion:	180	Resp:	230969
Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.3	114.5
145	28.3	22.2	33.4

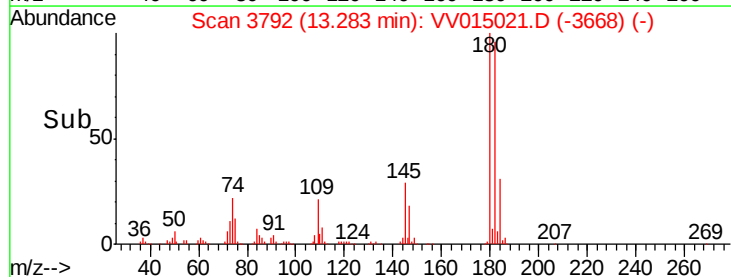
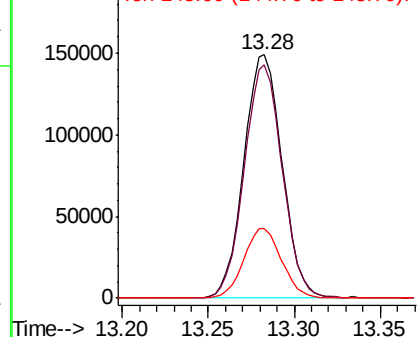


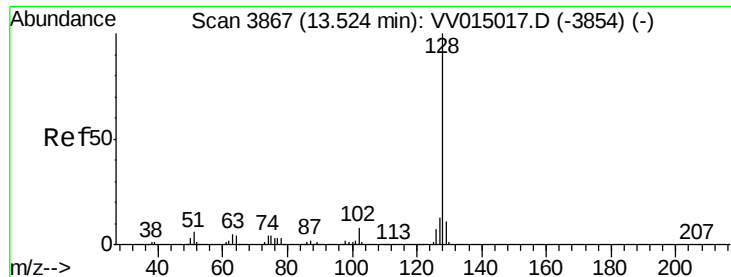
Abundance

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





#69

Naphthalene

Concen: 50.078 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD05097

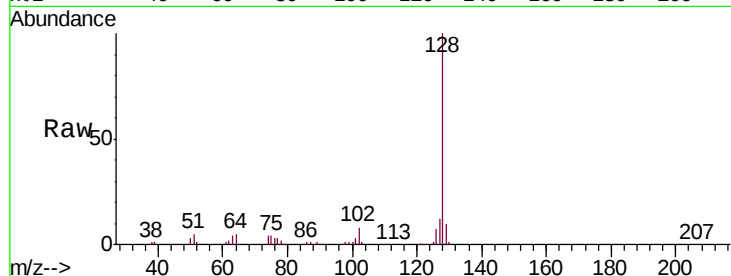
Tgt Ion:128 Resp: 296241

Ion Ratio Lower Upper

128 100

127 12.8 10.1 15.1

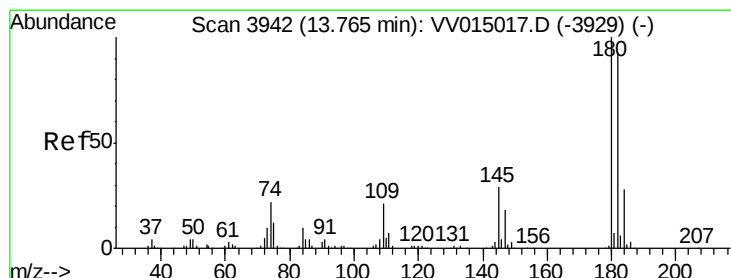
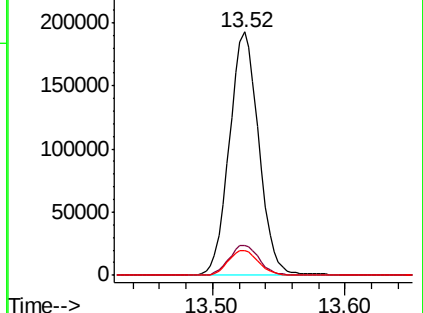
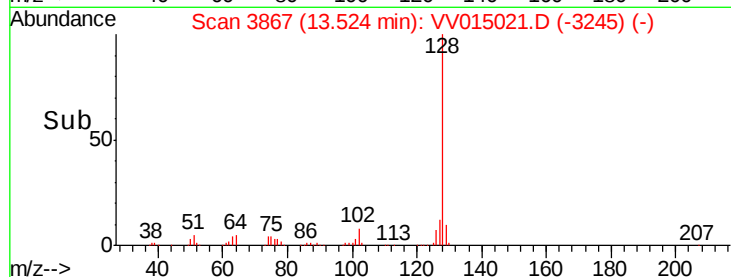
129 10.7 8.6 13.0



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: 52.151 ug/L

RT: 13.77 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VV015021.D

Acq: 18 Mar 2020 17:46

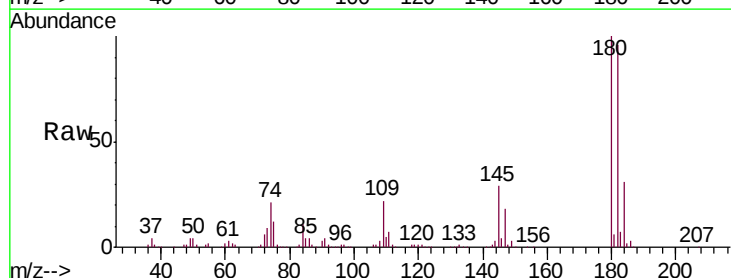
Tgt Ion:180 Resp: 232139

Ion Ratio Lower Upper

180 100

182 95.4 75.5 113.3

145 29.3 23.5 35.3



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

