

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV071520\
 Data File : VV071511.D
 Acq On : 15 Jul 2020 16:00
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00553

Quant Time: Jul 16 01:33:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR071420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Jul 16 01:29:31 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	136231	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	133104	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	74830	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	35484	4.48	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.60%
7) Chloroethane-d5	1.58	69	36454	5.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	115.60%
11) 1,1-Dichloroethene-d2	2.13	63	95302	5.50	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	110.00%
20) 2-Butanone-d5	3.95	46	76829	47.25	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.50%
24) Chloroform-d	4.38	84	84174	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
26) 1,2-Dichloroethane-d4	5.06	65	47109	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.60%
32) Benzene-d6	5.07	84	148041	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.00%
36) 1,2-Dichloropropane-d6	6.10	67	39572	4.65	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.00%
41) Toluene-d8	7.34	98	141207	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.20%
45) trans-1,3-Dichloropropene-	7.64	79	19920	4.81	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	96.20%
48) 2-Hexanone-d5	8.11	63	62849	50.85	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.70%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	30373	5.03	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.60%
65) 1,2-Dichlorobenzene-d4	11.65	152	58850	4.60	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	80118	4.984	ug/L 96
3) Chloromethane	1.25	50	52776	4.803	ug/L 94
5) Vinyl chloride	1.32	62	54668	4.971	ug/L 99
6) Bromomethane	1.53	94	39562	5.961	ug/L 96
8) Chloroethane	1.60	64	39211	6.168	ug/L 97
9) Trichlorofluoromethane	1.77	101	117512	5.845	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	55509	6.003	ug/L 99
12) 1,1-Dichloroethene	2.13	96	49290	6.014	ug/L 95
13) Acetone	2.23	43	73960	62.652	ug/L 89
14) Carbon disulfide	2.31	76	154567	6.092	ug/L 98
15) Methyl Acetate	2.46	43	15310	6.714	ug/L 97
16) Methylene chloride	2.52	84	83329	8.442	ug/L 99
17) Methyl tert-butyl Ether	2.79	73	117021	5.746	ug/L 97
18) trans-1,2-Dichloroethene	2.78	96	54027	6.147	ug/L 97
19) 1,1-Dichloroethane	3.21	63	121657	7.163	ug/L 96
21) 2-Butanone	4.03	43	85752	46.994	ug/L # 80
22) cis-1,2-Dichloroethene	3.94	96	48998	5.143	ug/L 94

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 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
 VSTD00553

Quant Time: Jul 16 01:33:02 2020
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Jul 16 01:29:31 2020
 Response via : Initial Calibration

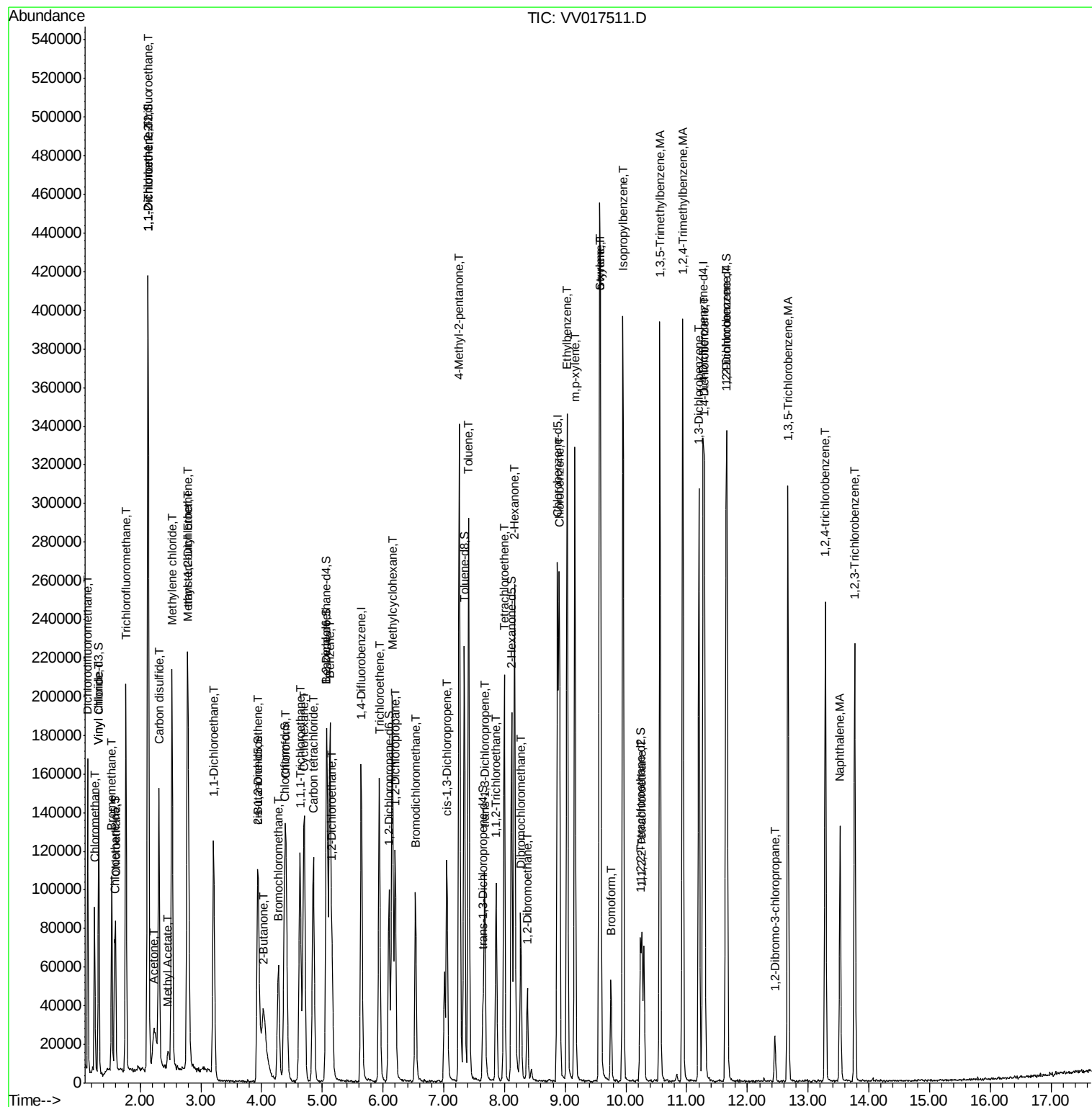
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.28	128	21784	5.077	ug/L	92
25) Chloroform	4.40	83	96876	5.286	ug/L	100
27) 1,2-Dichloroethane	5.16	62	61027	5.090	ug/L	99
29) 1,1,1-Trichloroethane	4.63	97	94945	5.045	ug/L	97
30) Cyclohexane	4.70	56	67349	4.701	ug/L	99
31) Carbon tetrachloride	4.85	117	85918	4.936	ug/L	98
33) Benzene	5.13	78	177115	5.001	ug/L	100
34) Trichloroethene	5.94	95	52924	4.895	ug/L	97
35) Methylcyclohexane	6.15	83	77292	4.857	ug/L	98
37) 1,2-Dichloropropane	6.20	63	38932	4.748	ug/L	98
38) Bromodichloromethane	6.53	83	61834	4.869	ug/L	99
39) cis-1,3-Dichloropropene	7.05	75	64275	4.873	ug/L	100
40) 4-Methyl-2-pentanone	7.25	43	219771	50.715	ug/L	99
42) Toluene	7.41	91	205122	5.245	ug/L	97
43) 1,3,5-Trimethylbenzene	10.56	105	201291	5.186	ug/L	98
44) 1,2,4-Trimethylbenzene	10.94	105	205456	5.314	ug/L	100
46) trans-1,3-Dichloropropene	7.67	75	56761	4.890	ug/L	96
47) 1,1,2-Trichloroethane	7.86	97	29862	4.875	ug/L	95
49) Tetrachloroethene	8.00	164	46800	5.086	ug/L	99
50) 2-Hexanone	8.16	43	157022	49.319	ug/L	99
51) Dibromochloromethane	8.27	129	42865	5.078	ug/L	100
52) 1,2-Dibromoethane	8.38	107	28623	4.770	ug/L #	98
53) Chlorobenzene	8.90	112	131074	5.004	ug/L	100
54) Ethylbenzene	9.03	91	229251	5.122	ug/L	99
55) m,p-xylene	9.16	106	87172	5.150	ug/L	97
56) o-xylene	9.57	106	85262	5.208	ug/L	95
57) Styrene	9.58	104	145422	5.278	ug/L	100
58) Isopropylbenzene	9.95	105	235622	5.084	ug/L	100
60) 1,1,2,2-Tetrachloroethane	10.26	83	31459	5.085	ug/L	86
62) Bromoform	9.76	173	22826	4.743	ug/L	100
63) 1,3-Dichlorobenzene	11.20	146	119222	5.124	ug/L	97
64) 1,4-Dichlorobenzene	11.29	146	115420	4.998	ug/L	99
66) 1,2-Dichlorobenzene	11.67	146	103526	4.910	ug/L	99
67) 1,2-Dibromo-3-chloropropan	12.45	75	5559	4.280	ug/L	86
68) 1,3,5-Trichlorobenzene	12.67	180	93066	4.919	ug/L	99
69) 1,2,4-trichlorobenzene	13.29	180	75478	4.858	ug/L	100
70) Naphthalene	13.53	128	100825	4.611	ug/L	98
71) 1,2,3-Trichlorobenzene	13.77	180	65857	4.914	ug/L	95

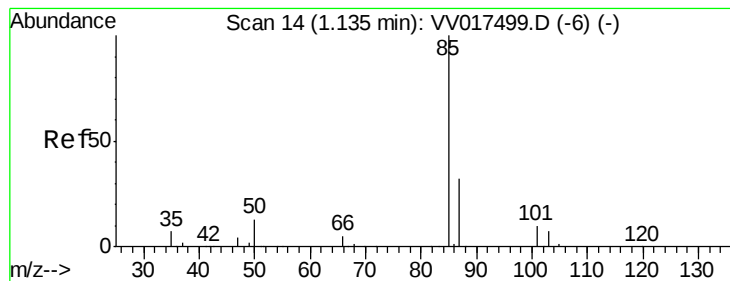
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_V
ClientSampleId :
VSTD00553

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QLast Update : Thu Jul 16 01:29:31 2020
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.984 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

Instrument :

MSVOA_V

ClientSampleId :

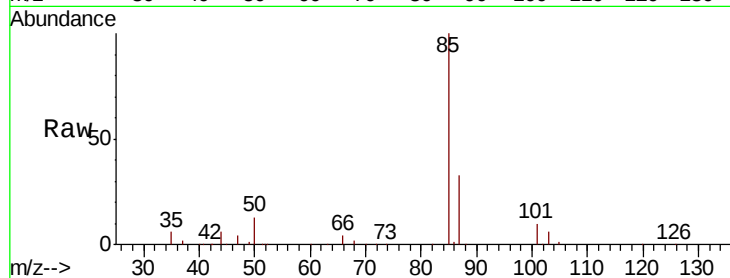
VSTD00553

Tot Ion: 85 Resp: 80118

Ion Ratio Lower Upper

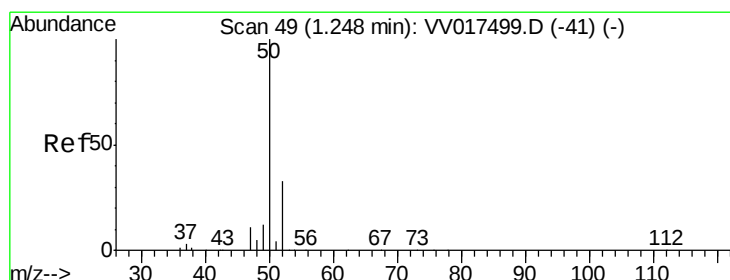
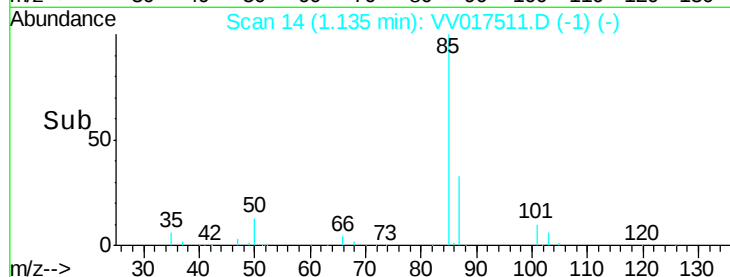
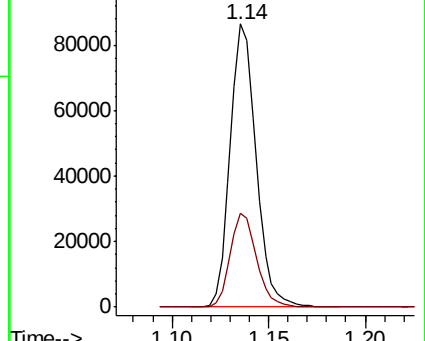
85 100

87 33.5 25.1 37.7



Abundance Ion 85.00 (84.70 to 85.70): VV017511.D (-6) (-)

Ion 87.00 (86.70 to 87.70): VV017511.D (-6) (-)



#3

Chloromethane

Concen: 4.803 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV017511.D

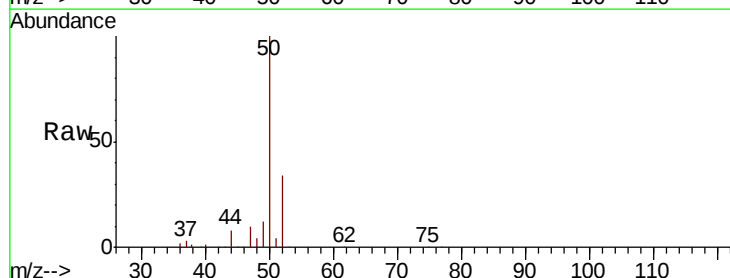
Acq: 15 Jul 2020 16:00

Tgt Ion: 50 Resp: 52776

Ion Ratio Lower Upper

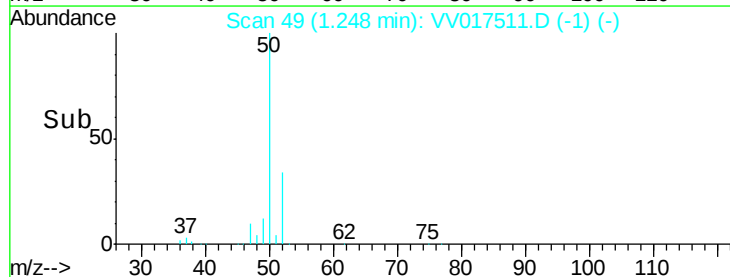
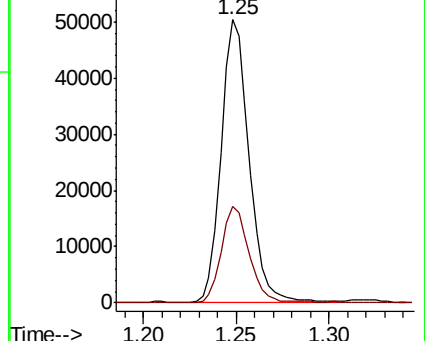
50 100

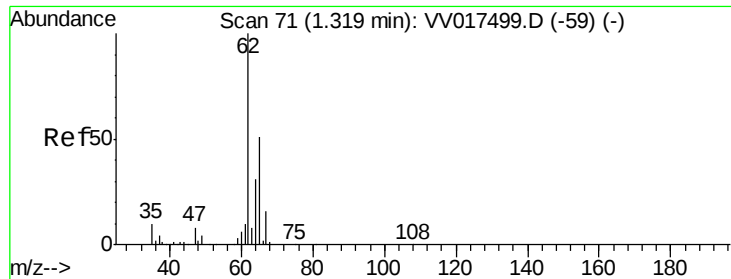
52 33.9 21.4 39.8



Abundance Ion 50.05 (49.75 to 50.75): VV017511.D (-41) (-)

Ion 52.05 (51.75 to 52.75): VV017511.D (-41) (-)





#5

Vinyl chloride

Concen: 4.971 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

Instrument :

MSVOA_V

ClientSampleId :

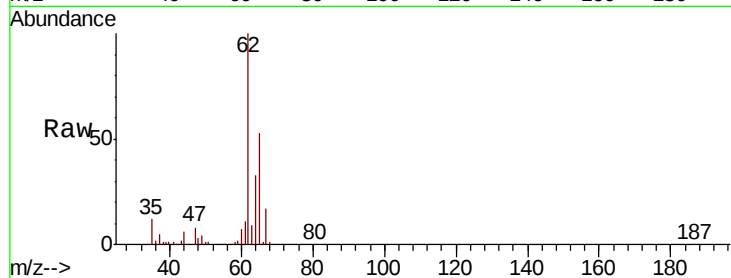
VSTD00553

Tot Ion: 62 Resp: 54668

Ion Ratio Lower Upper

62 100

64 32.7 23.2 43.2



Abundance Ion 62.00 (61.70 to 62.70): VV017499.D (-59) (-)

Ion 64.10 (63.80 to 64.80): VV017499.D (-59) (-)

1.32

60000

50000

40000

30000

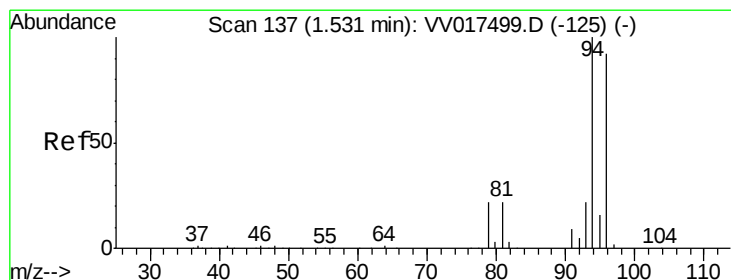
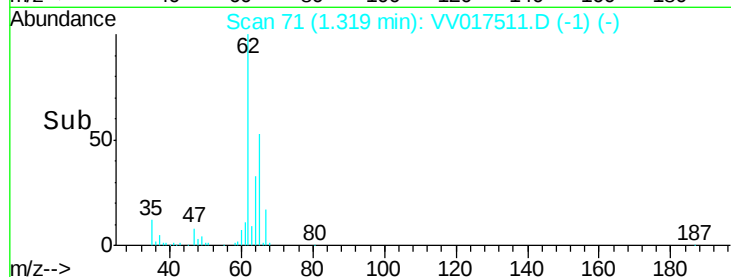
20000

10000

0

1.30 1.35

Time-->



#6

Bromomethane

Concen: 5.961 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV017511.D

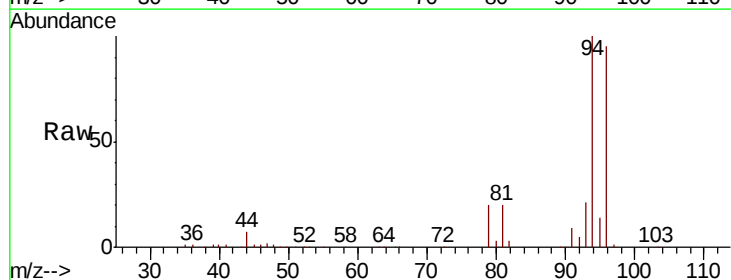
Acq: 15 Jul 2020 16:00

Tgt Ion: 94 Resp: 39562

Ion Ratio Lower Upper

94 100

96 94.9 69.0 128.2



Abundance Ion 94.00 (93.70 to 94.70): VV017499.D (-125) (-)

Ion 96.00 (95.70 to 96.70): VV017499.D (-125) (-)

1.53

40000

30000

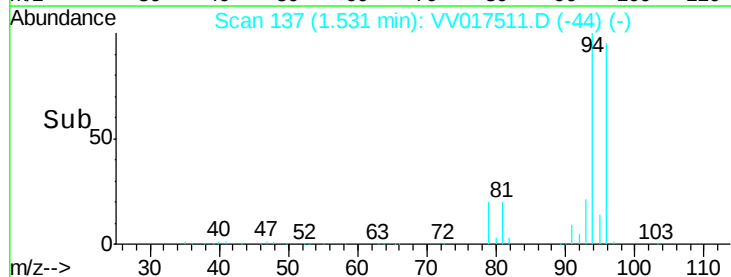
20000

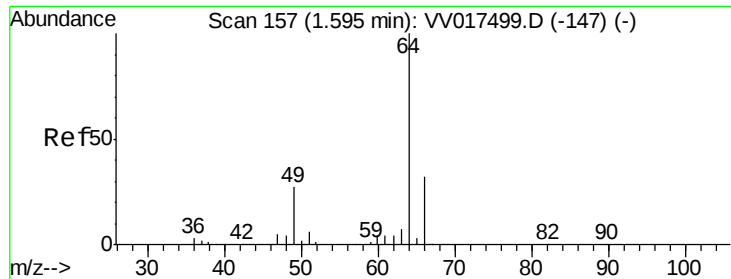
10000

0

1.50 1.55 1.60

Time-->





#8

Chloroethane

Concen: 6.168 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

Instrument :

MSVOA_V

ClientSampleId :

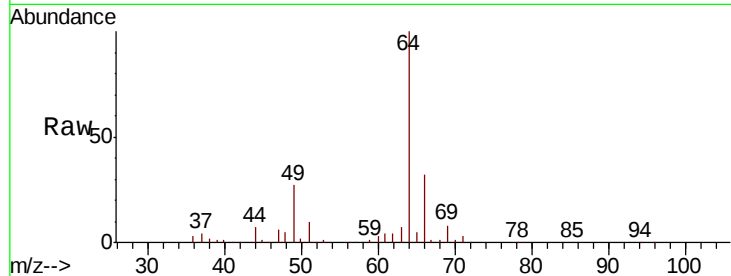
VSTD00553

Tot Ion: 64 Resp: 39211

Ion Ratio Lower Upper

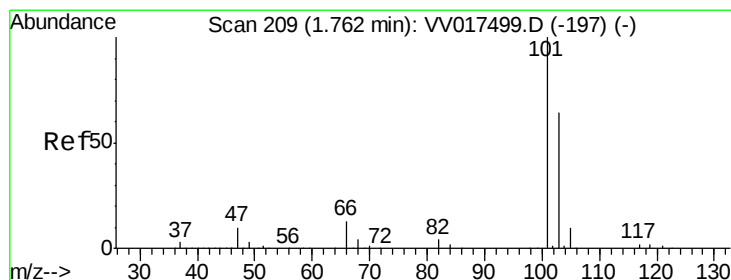
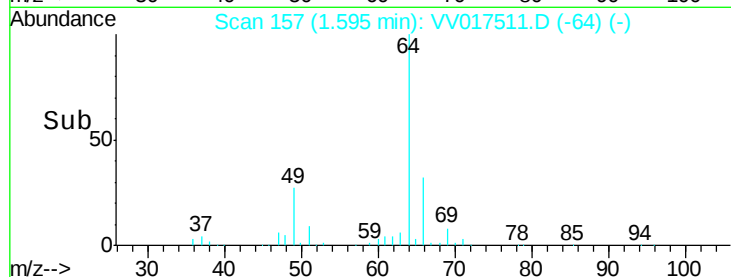
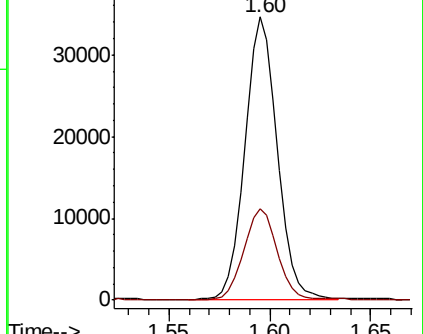
64 100

66 32.4 21.5 39.9



Abundance Ion 64.10 (63.80 to 64.80): VV017499.D (-147) (-)

Ion 66.05 (65.75 to 66.75): VV017499.D (-147) (-)



#9

Trichlorofluoromethane

Concen: 5.845 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV017511.D

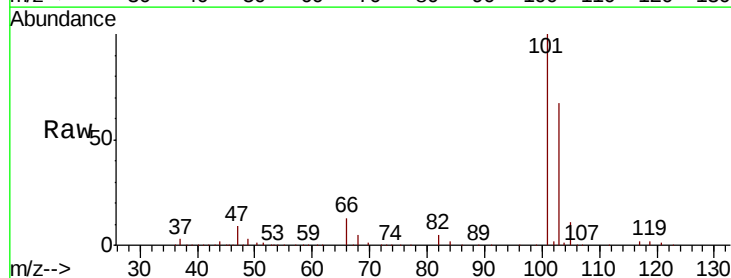
Acq: 15 Jul 2020 16:00

Tgt Ion: 101 Resp: 117512

Ion Ratio Lower Upper

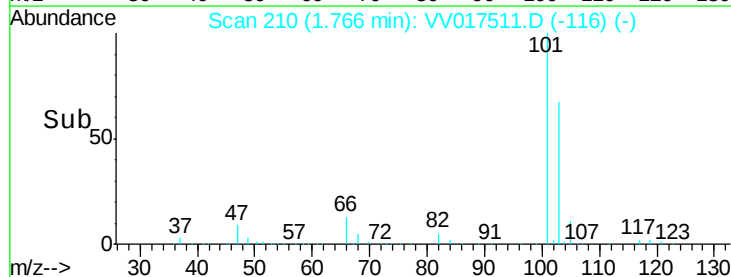
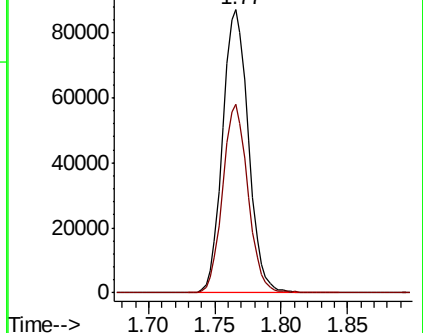
101 100

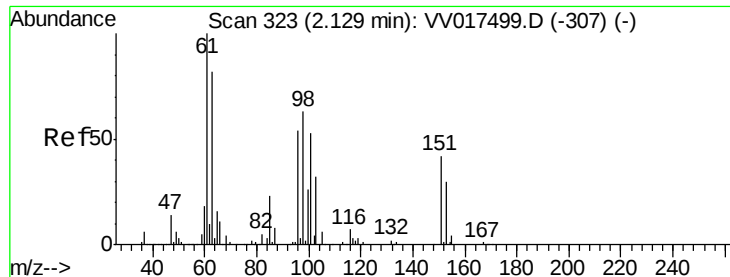
103 65.4 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): VV017499.D (-197) (-)

Ion 103.00 (102.70 to 103.70): VV017499.D (-197) (-)





#10

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

Concen: 6.003 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD00553

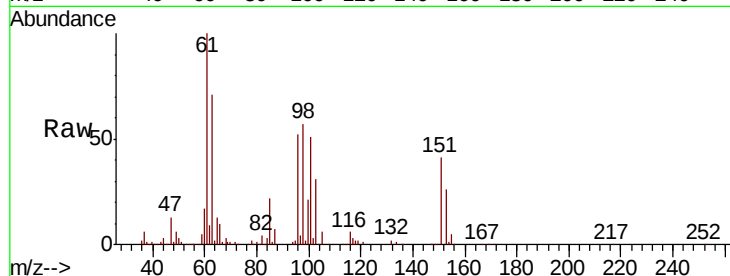
Tot Ion:101 Resp: 55509

Ion Ratio Lower Upper

101 100

85 44.7 35.4 53.2

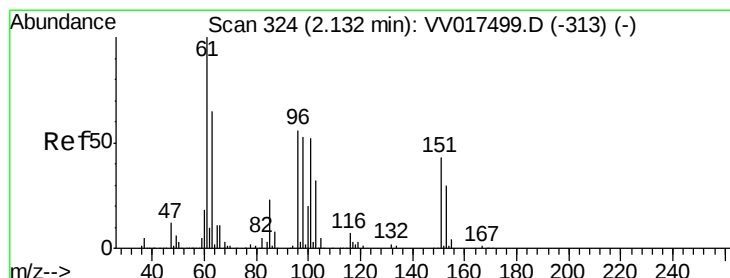
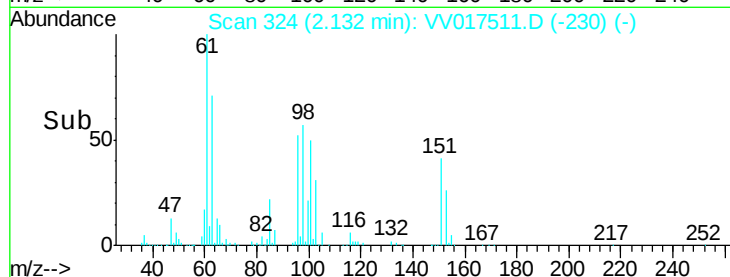
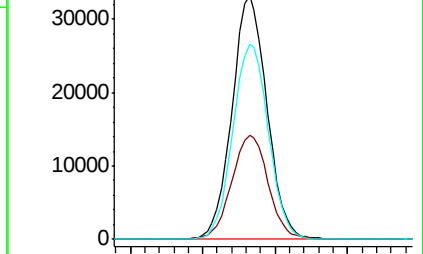
151 81.7 66.5 99.7



Abundance Ion 101.00 (100.70 to 101.70): VV017511.D (-230) (-)

Ion 85.00 (84.70 to 85.70): VV017511.D (-230) (-)

Ion 151.00 (150.70 to 151.70): VV017511.D (-230) (-)



#12

1,1-Dichloroethene

Concen: 6.014 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

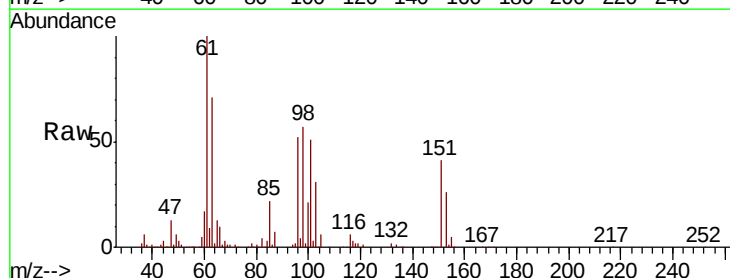
Tgt Ion: 96 Resp: 49290

Ion Ratio Lower Upper

96 100

61 192.7 137.2 254.8

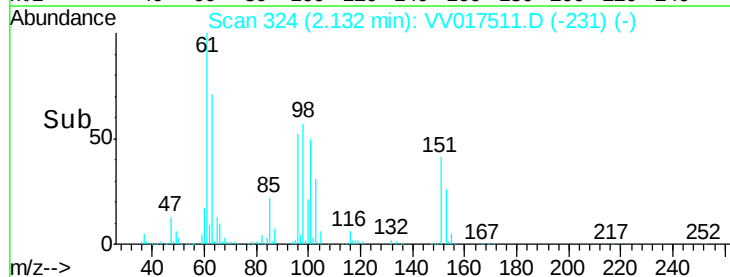
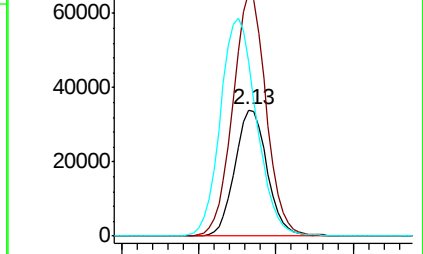
63 137.7 103.6 192.4

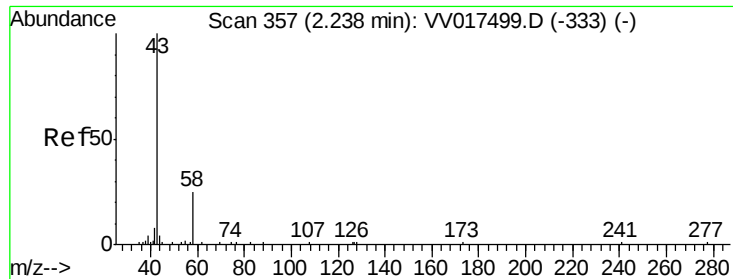


Abundance Ion 96.00 (95.70 to 96.70): VV017511.D (-231) (-)

Ion 61.05 (60.75 to 61.75): VV017511.D (-231) (-)

Ion 63.00 (62.70 to 63.70): VV017511.D (-231) (-)





#13

Acetone

Concen: 62.652 ug/L

RT: 2.23 min Scan# 353

Delta R.T. -0.01 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

Instrument :

MSVOA_V

ClientSampleId :

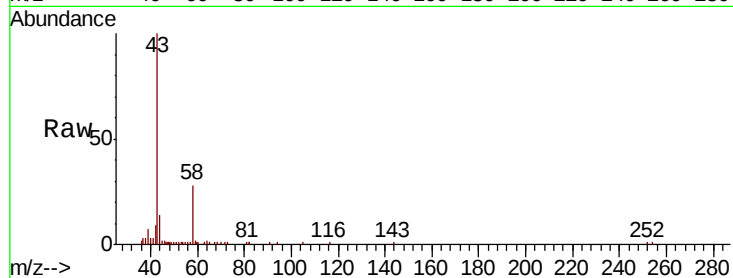
VSTD00553

Tot Ion: 43 Resp: 73960

Ion Ratio Lower Upper

43 100

58 12.3 0.0 33.6



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

2.23

15000

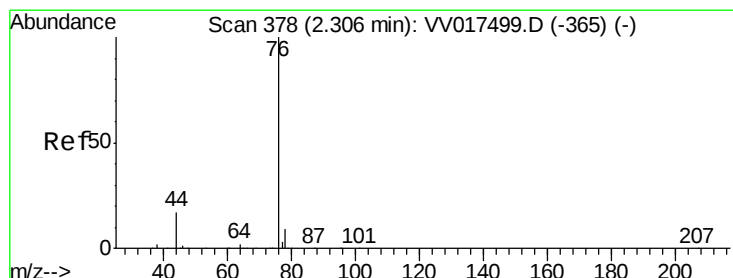
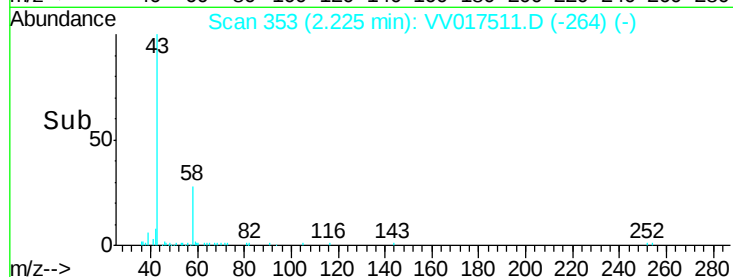
10000

5000

0

Time-->

2.10 2.20 2.30 2.40



#14

Carbon disulfide

Concen: 6.092 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV017511.D

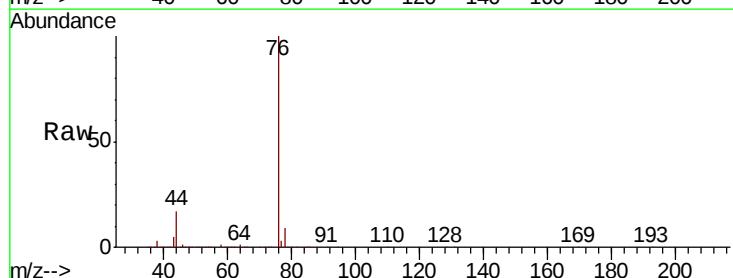
Acq: 15 Jul 2020 16:00

Tgt Ion: 76 Resp: 154567

Ion Ratio Lower Upper

76 100

78 8.7 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

120000

100000

80000

60000

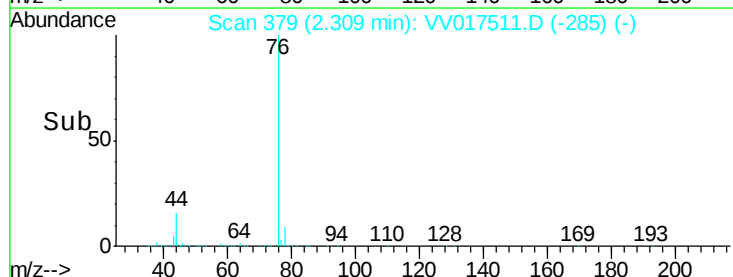
40000

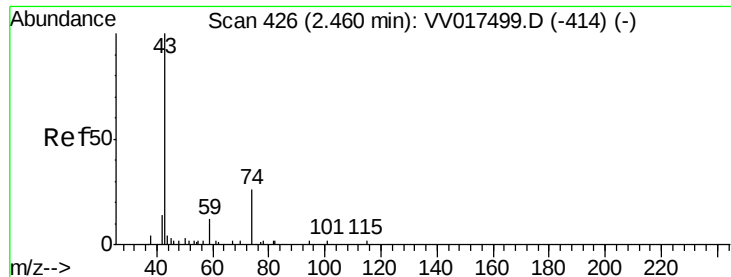
20000

0

Time-->

2.25 2.30 2.35 2.40





#15

Methvl Acetate

Concen: 6.714 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

Instrument :

MSVOA_V

ClientSampleId :

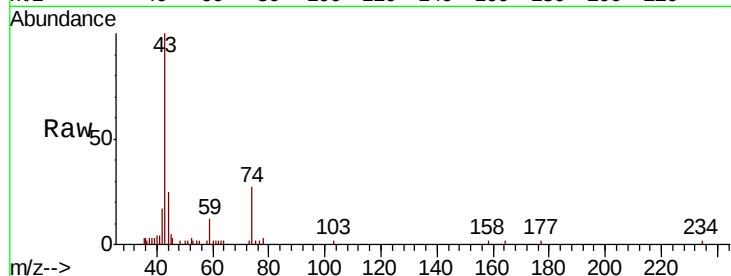
VSTD00553

Tot Ion: 43 Resp: 15310

Ion Ratio Lower Upper

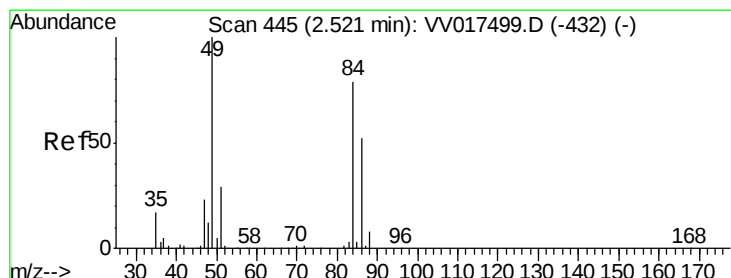
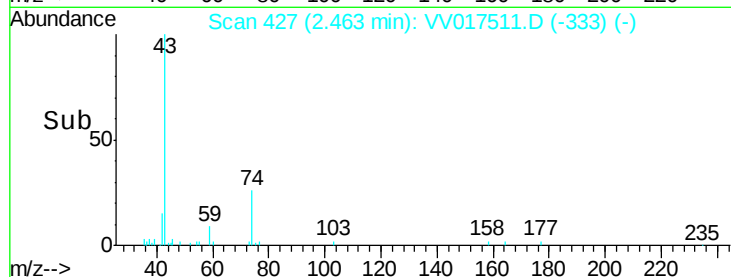
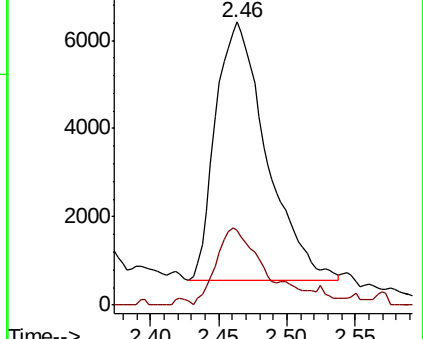
43 100

74 24.1 20.5 30.7



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 8.442 ug/L

RT: 2.52 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

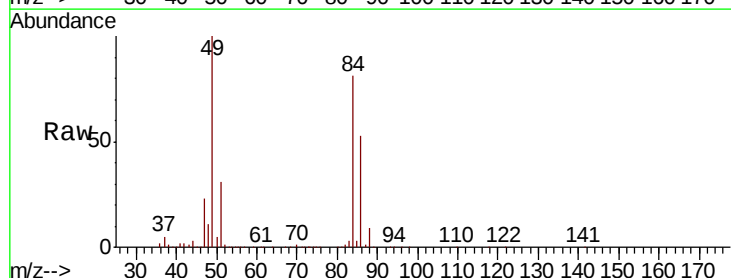
Tgt Ion: 84 Resp: 83329

Ion Ratio Lower Upper

84 100

86 65.6 45.5 84.5

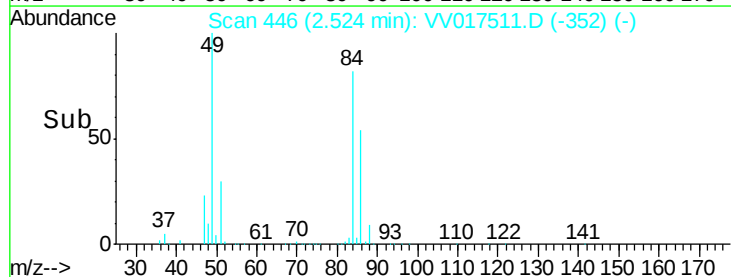
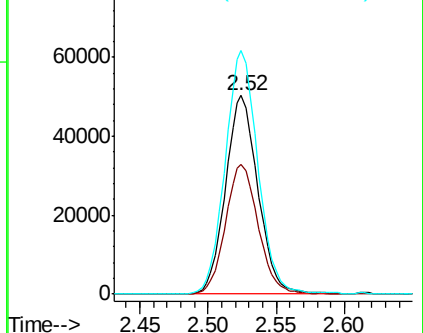
49 122.7 84.6 157.0

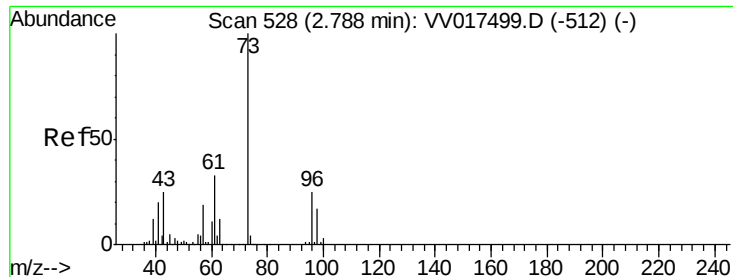


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

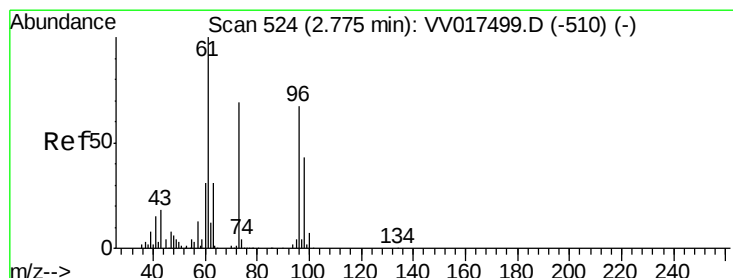
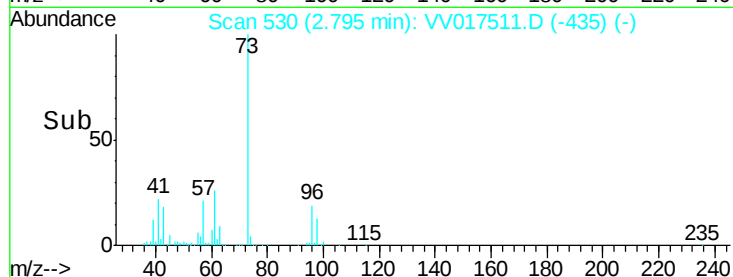
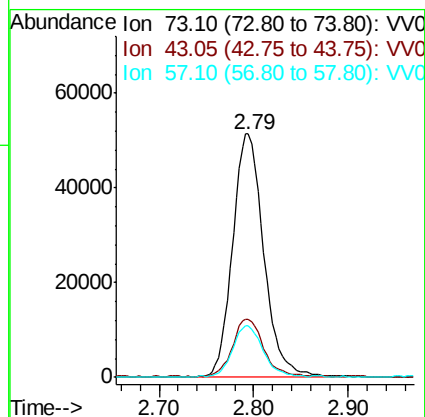
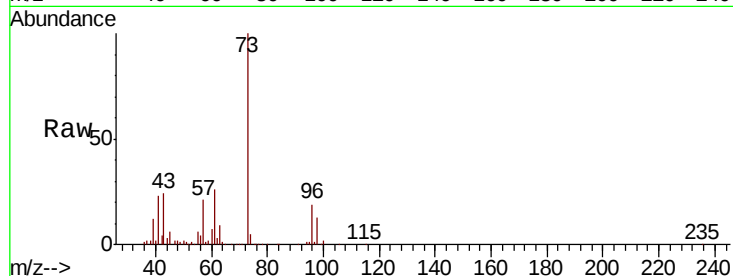




#17
Methvl tert-butvl Ether
Concen: 5.746 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.01 min
Lab File: VV017511.D
Acq: 15 Jul 2020 16:00

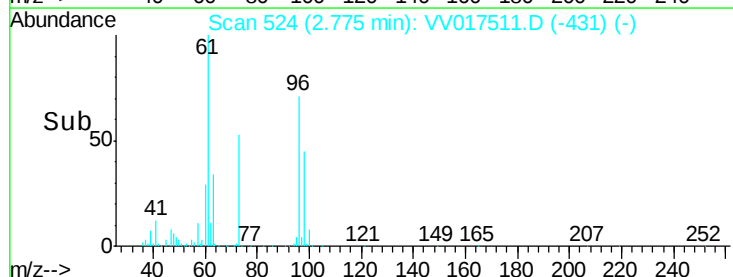
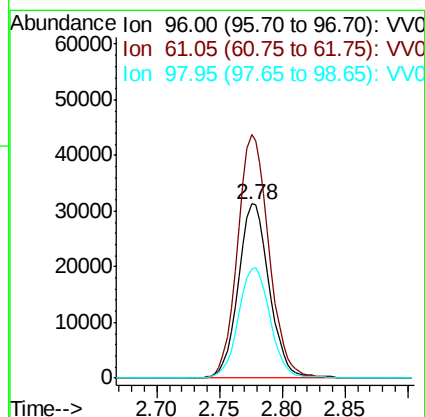
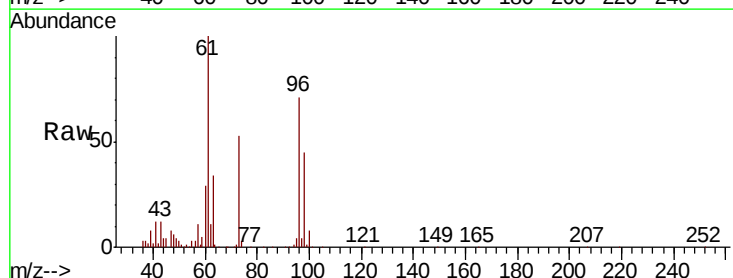
Instrument :
MSVOA_V
ClientSampleId :
VSTD00553

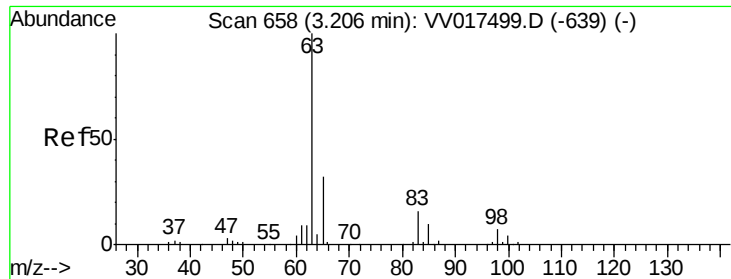
Tot Ion: 73 Resp: 117021
Ion Ratio Lower Upper
73 100
43 23.2 20.4 30.6
57 21.2 16.7 25.1



#18
trans-1,2-Dichloroethene
Concen: 6.147 ug/L
RT: 2.78 min Scan# 524
Delta R.T. 0.00 min
Lab File: VV017511.D
Acq: 15 Jul 2020 16:00

Tgt Ion: 96 Resp: 54027
Ion Ratio Lower Upper
96 100
61 140.0 95.1 176.7
98 62.8 43.5 80.7

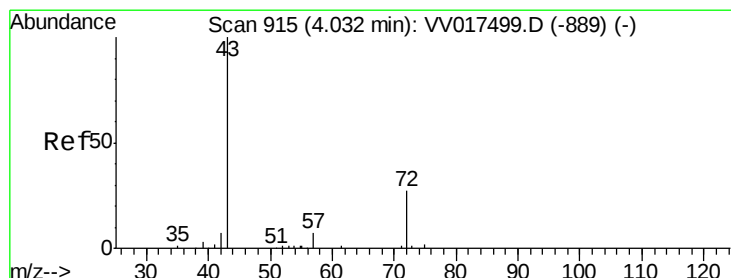
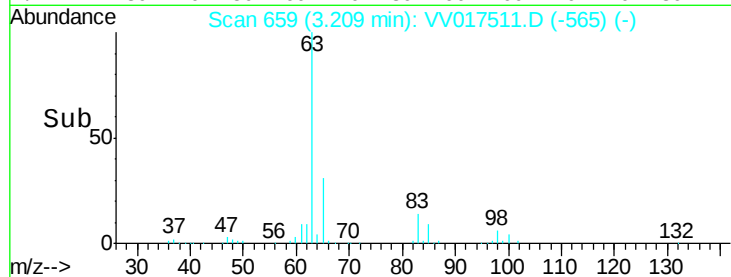
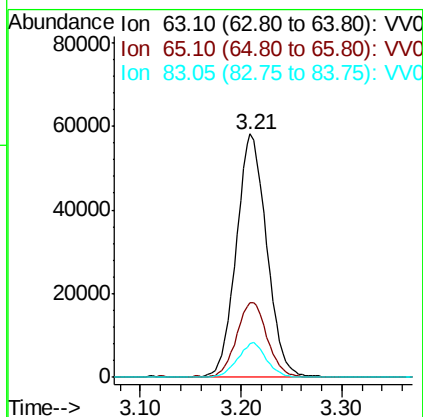
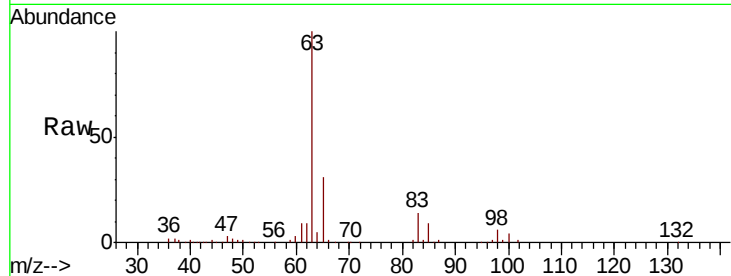




#19
 1,1-Dichloroethane
 Concen: 7.163 ug/L
 RT: 3.21 min Scan# 659
 Delta R.T. 0.00 min
 Lab File: VV017511.D
 Acq: 15 Jul 2020 16:00

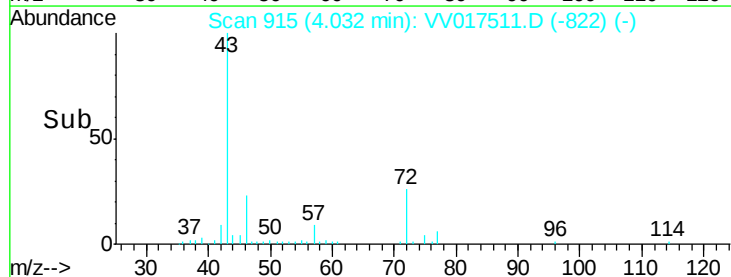
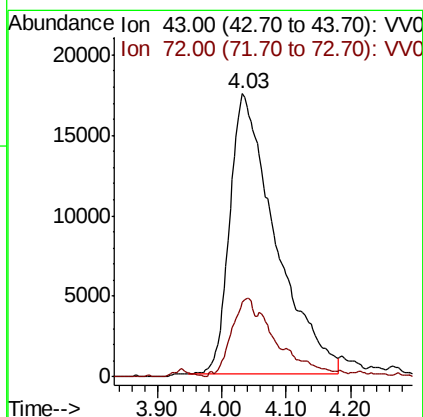
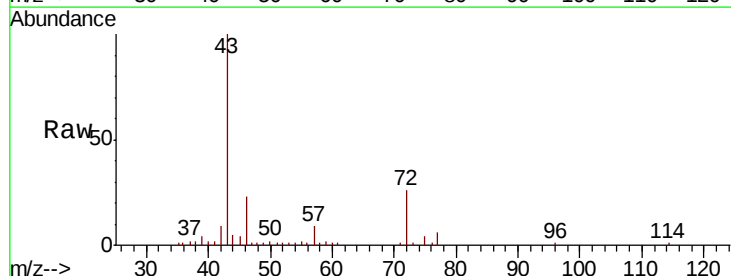
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00553

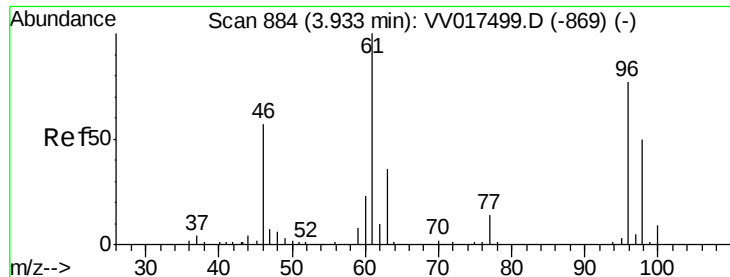
Tot Ion: 63 Resp: 121657
 Ion Ratio Lower Upper
 63 100
 65 30.6 23.2 43.0
 83 13.7 10.1 18.7



#21
 2-Butanone
 Concen: 46.994 ug/L
 RT: 4.03 min Scan# 915
 Delta R.T. 0.00 min
 Lab File: VV017511.D
 Acq: 15 Jul 2020 16:00

Tgt Ion: 43 Resp: 85752
 Ion Ratio Lower Upper
 43 100
 72 13.5 3.4 10.1#





#22

cis-1,2-Dichloroethene

Concen: 5.143 ug/L

RT: 3.94 min Scan# 885

Delta R.T. 0.00 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD00553

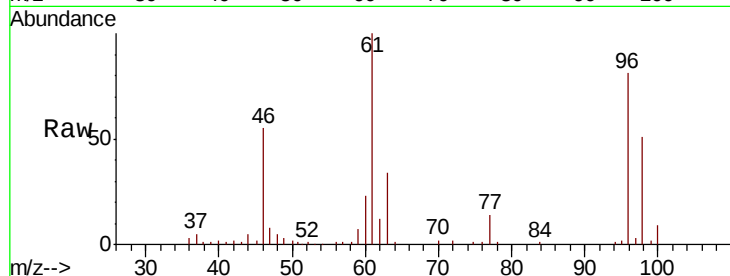
Tot Ion: 96 Resp: 48998

Ion Ratio Lower Upper

96 100

61 123.1 91.5 169.9

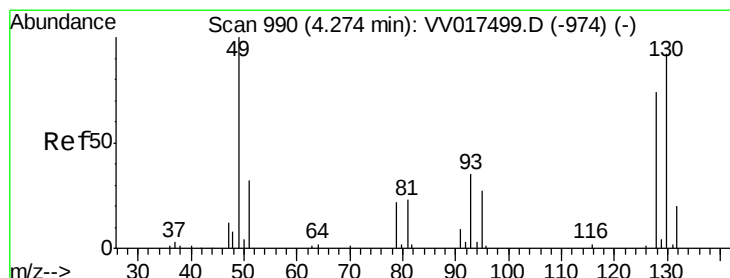
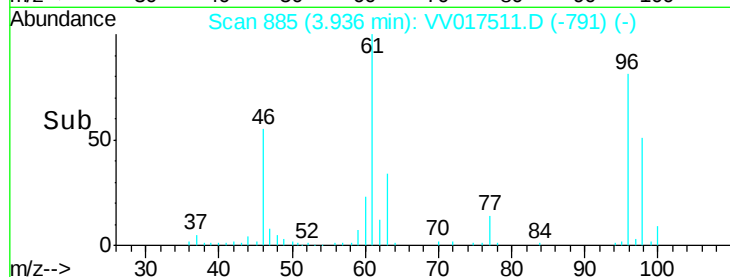
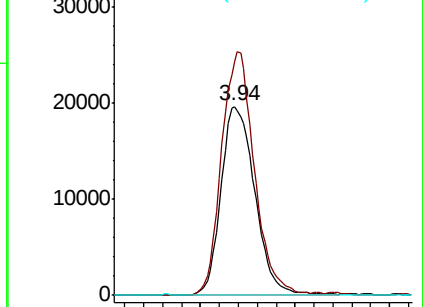
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV017511.D (-791) (-)

Ion 61.05 (60.75 to 61.75): VV017511.D (-791) (-)

Ion 68.15 (67.85 to 68.85): VV017511.D (-791) (-)



#23

Bromochloromethane

Concen: 5.077 ug/L

RT: 4.28 min Scan# 991

Delta R.T. 0.00 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

Tgt Ion: 128 Resp: 21784

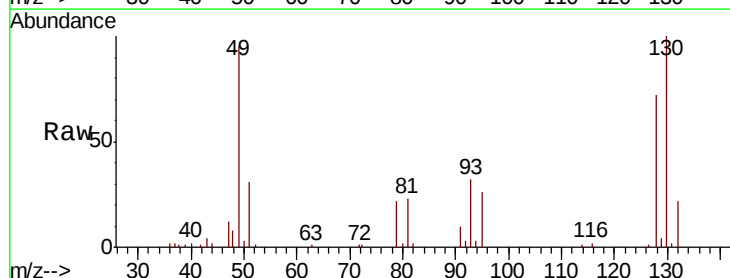
Ion Ratio Lower Upper

128 100

49 132.5 86.0 159.6

130 138.8 89.7 166.5

51 43.3 34.7 52.1

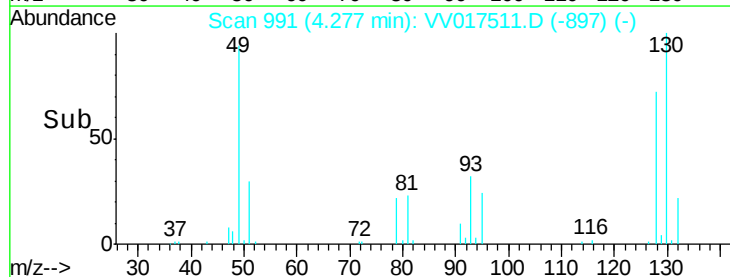
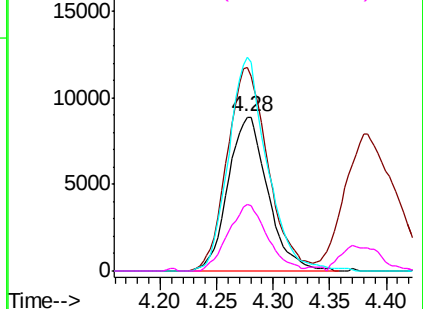


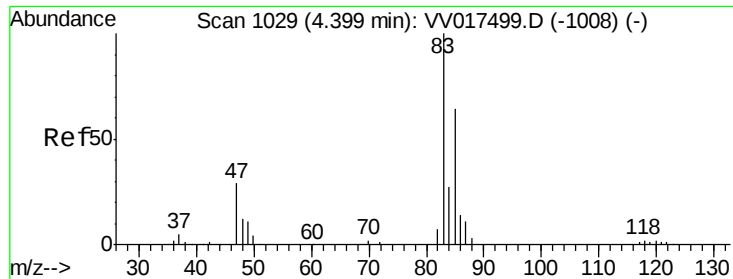
Abundance Ion 127.90 (127.60 to 128.60): VV017511.D (-897) (-)

Ion 49.10 (48.80 to 49.80): VV017511.D (-897) (-)

Ion 129.95 (129.65 to 130.65): VV017511.D (-897) (-)

Ion 51.05 (50.75 to 51.75): VV017511.D (-897) (-)

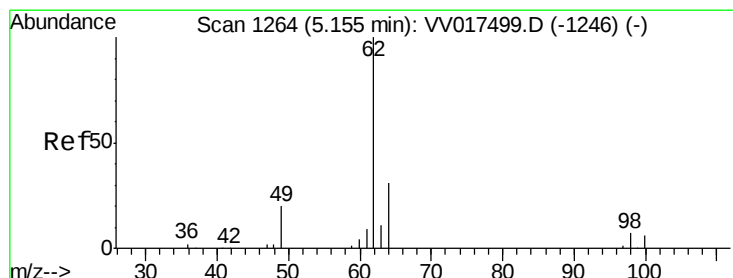
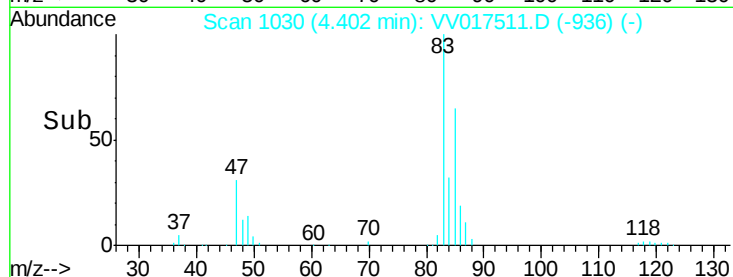
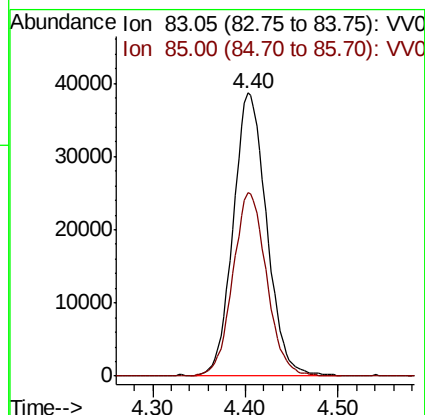
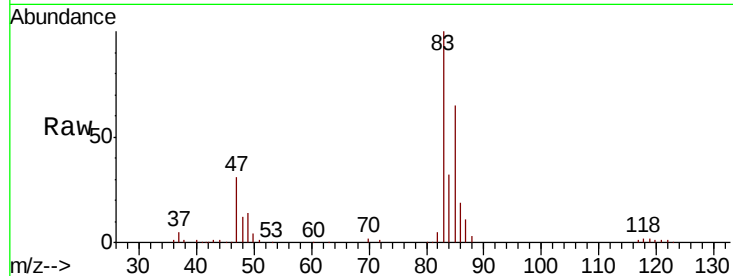




#25
Chloroform
Concen: 5.286 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV017511.D
Acq: 15 Jul 2020 16:00

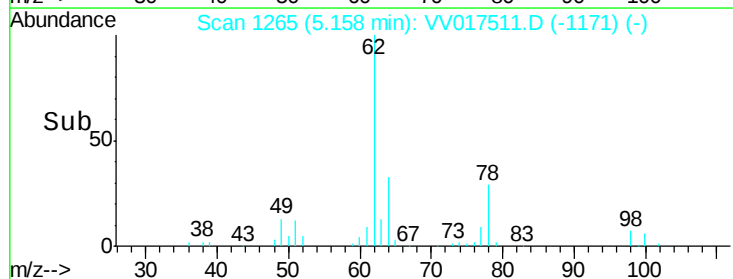
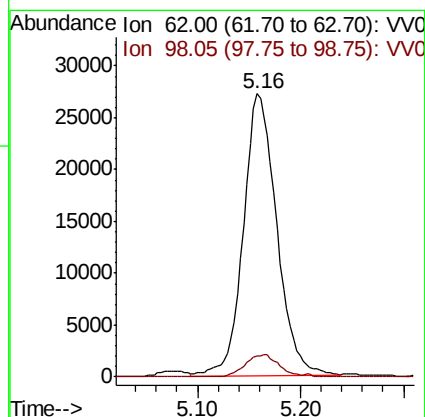
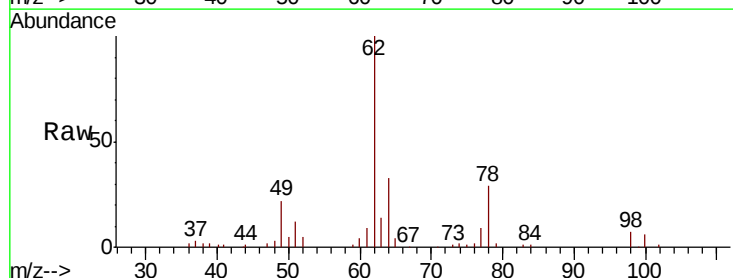
Instrument :
MSVOA_V
ClientSampleId :
VSTD00553

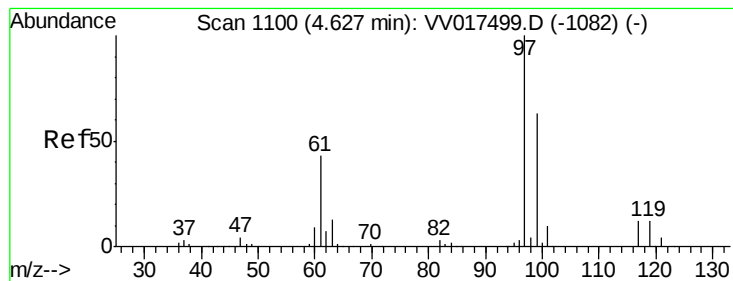
Tot Ion: 83 Resp: 96876
Ion Ratio Lower Upper
83 100
85 64.6 45.4 84.4



#27
1,2-Dichloroethane
Concen: 5.090 ug/L
RT: 5.16 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VV017511.D
Acq: 15 Jul 2020 16:00

Tgt Ion: 62 Resp: 61027
Ion Ratio Lower Upper
62 100
98 7.3 6.2 9.2





#29

1,1,1-Trichloroethane

Concen: 5.045 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.01 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD00553

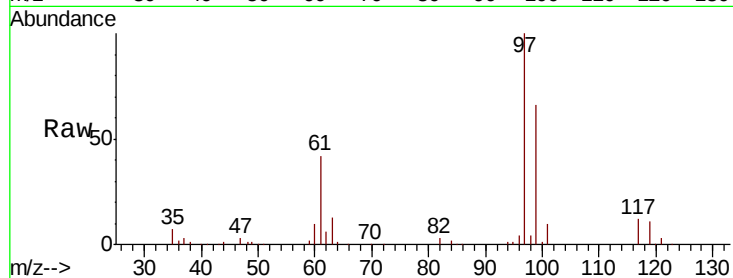
Tot Ion: 97 Resp: 94945

Ion Ratio Lower Upper

97 100

99 64.9 49.1 73.7

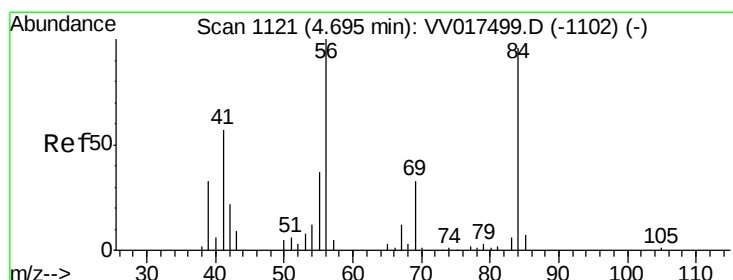
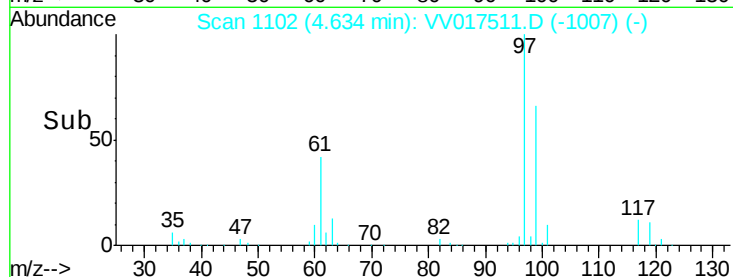
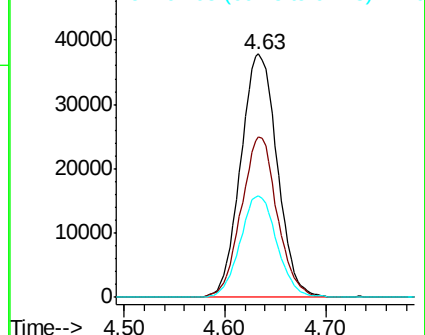
61 42.1 34.3 51.5



Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0



#30

Cyclohexane

Concen: 4.701 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

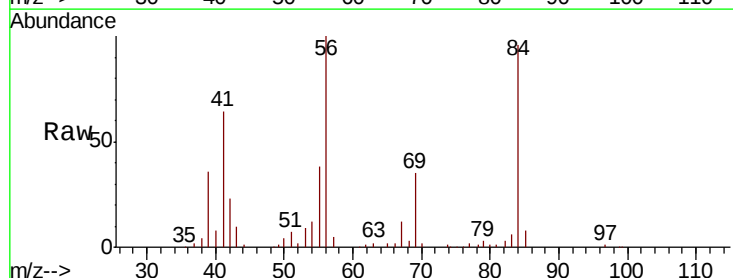
Tgt Ion: 56 Resp: 67349

Ion Ratio Lower Upper

56 100

69 33.5 26.0 39.0

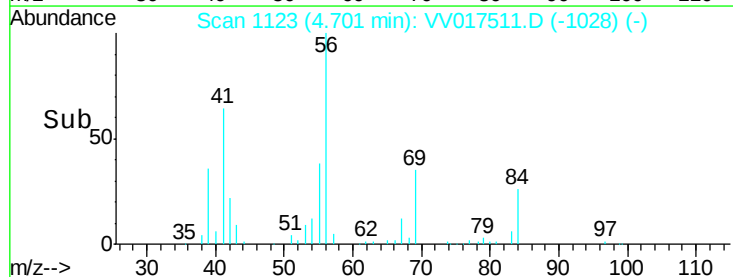
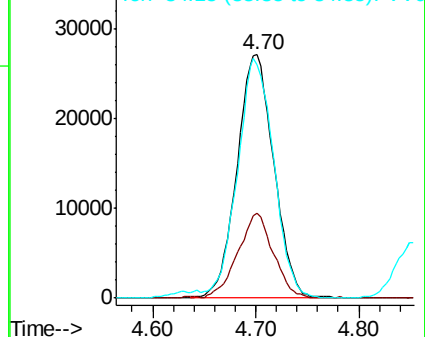
84 97.2 77.9 116.9

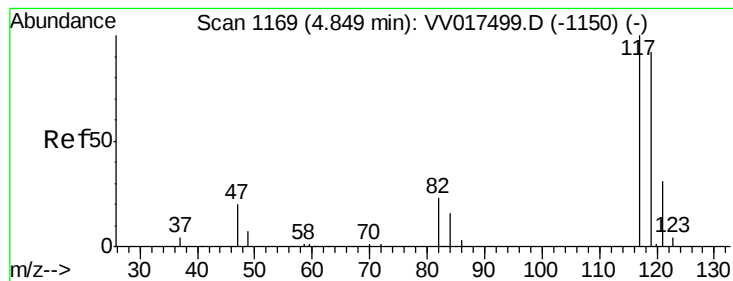


Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 4.936 ug/L

RT: 4.85 min Scan# 1169

Delta R.T. 0.00 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

Instrument :

MSVOA_V

ClientSampleId :

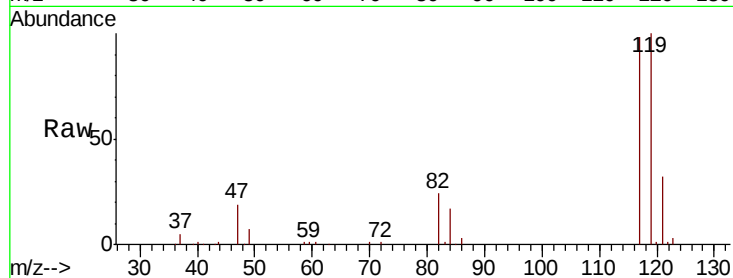
VSTD00553

Tot Ion:117 Resp: 85918

Ion Ratio Lower Upper

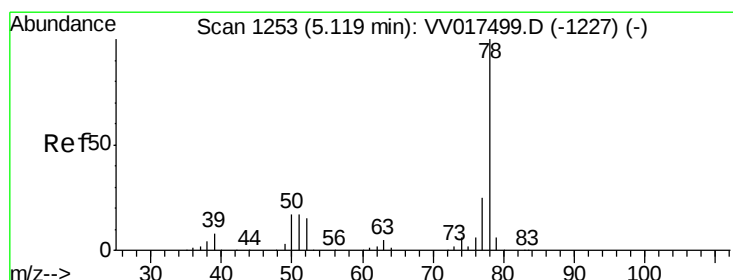
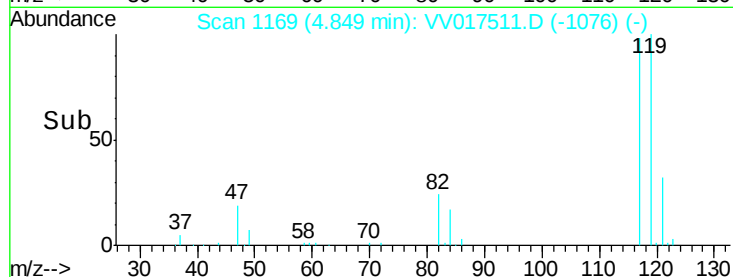
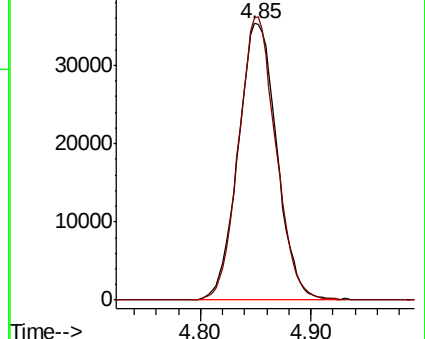
117 100

119 98.9 77.6 116.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.001 ug/L

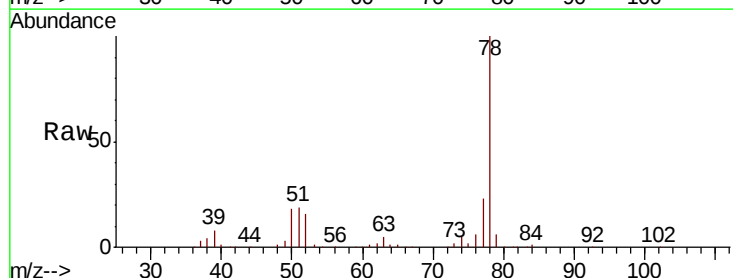
RT: 5.13 min Scan# 1255

Delta R.T. 0.01 min

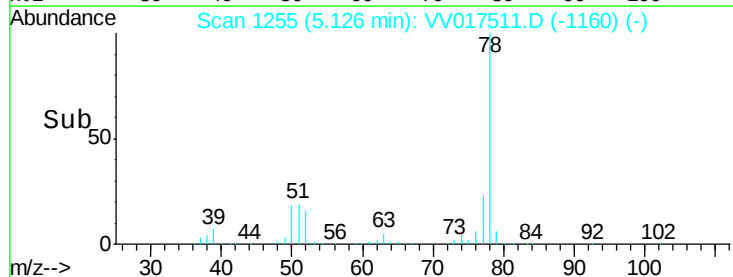
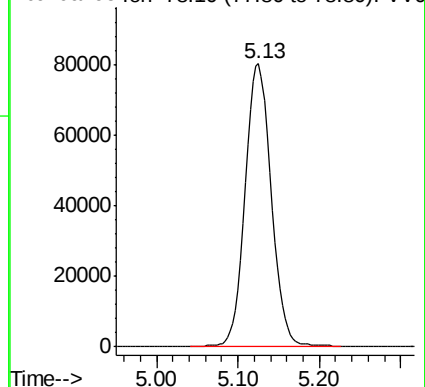
Lab File: VV017511.D

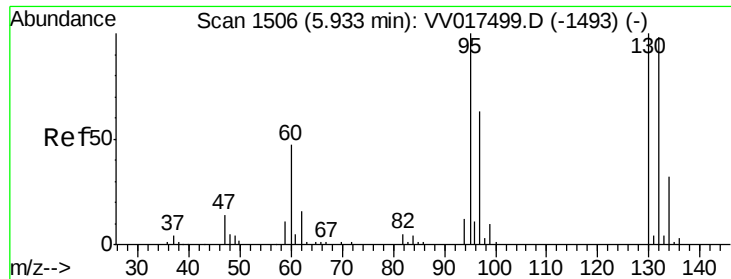
Acq: 15 Jul 2020 16:00

Tgt Ion: 78 Resp: 177115



Abundance Ion 78.10 (77.80 to 78.80): VV0

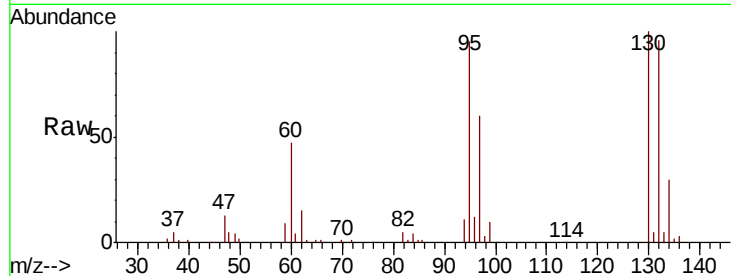




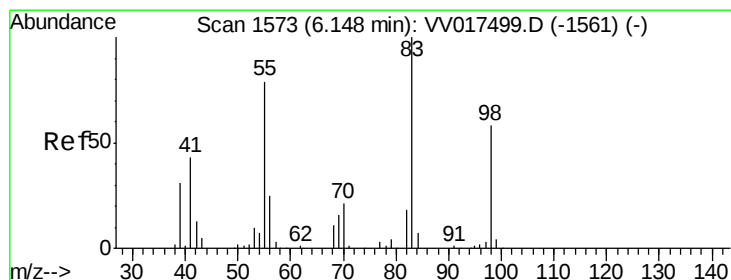
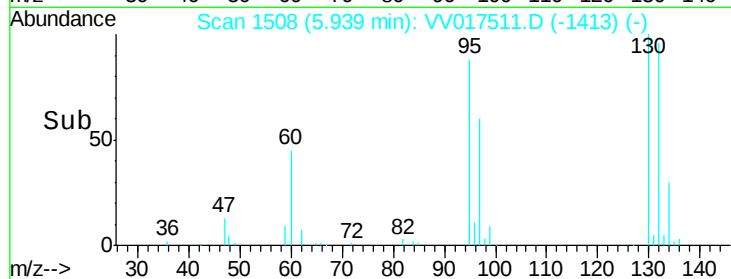
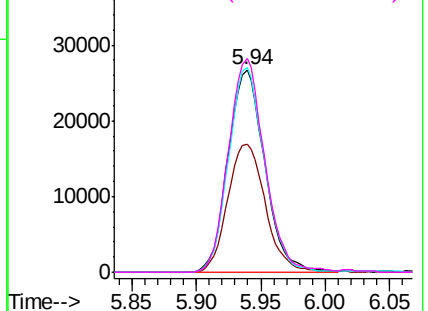
#34
 Trichloroethene
 Concen: 4.895 ug/L
 RT: 5.94 min Scan# 1508
 Delta R.T. 0.01 min
 Lab File: VV017511.D
 Acq: 15 Jul 2020 16:00

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00553

Tot Ion: 95 Resp: 52924
 Ion Ratio Lower Upper
 95 100
 97 63.2 43.9 81.5
 132 101.5 67.9 126.1
 130 105.6 75.2 139.6

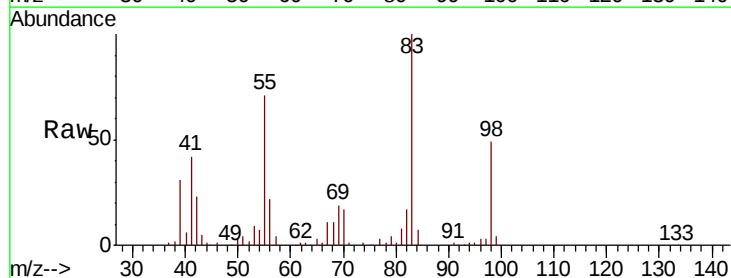


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

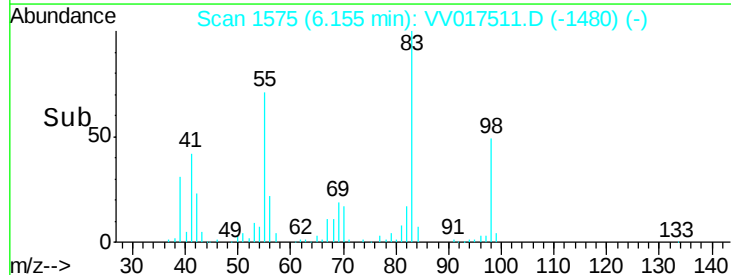
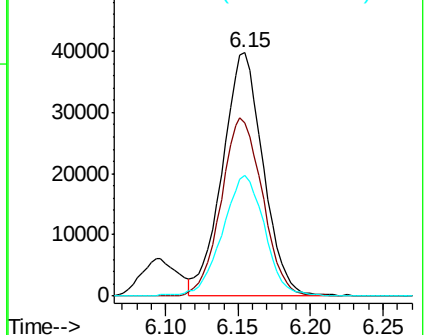


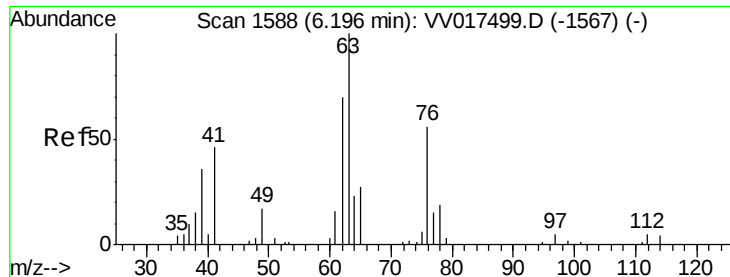
#35
 Methylcyclohexane
 Concen: 4.857 ug/L
 RT: 6.15 min Scan# 1575
 Delta R.T. 0.01 min
 Lab File: VV017511.D
 Acq: 15 Jul 2020 16:00

Tgt Ion: 83 Resp: 77292
 Ion Ratio Lower Upper
 83 100
 55 74.6 62.0 93.0
 98 51.6 41.4 62.2



Abundance Ion 83.15 (82.85 to 83.85): VV0
 Ion 55.10 (54.80 to 55.80): VV0
 Ion 98.15 (97.85 to 98.85): VV0

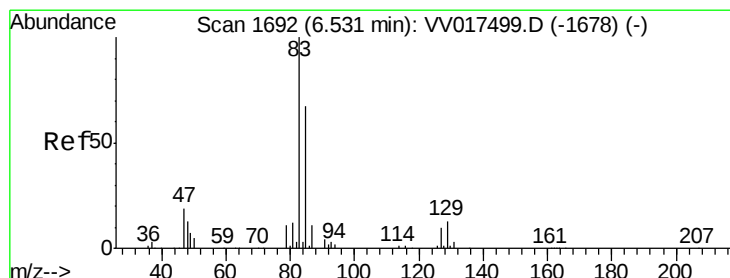
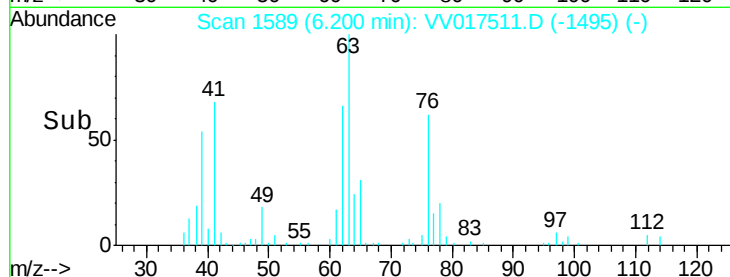
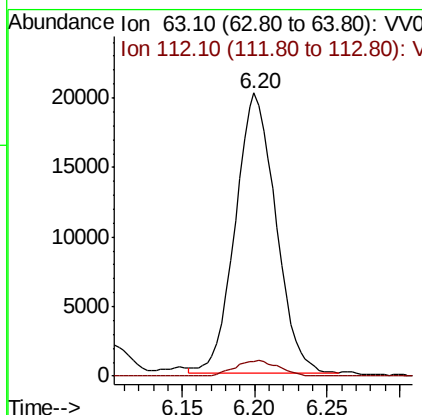
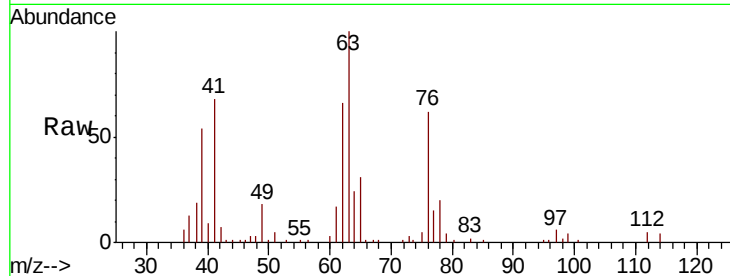




#37
 1,2-Dichloropropane
 Concen: 4.748 ug/L
 RT: 6.20 min Scan# 1589
 Delta R.T. 0.00 min
 Lab File: VV017511.D
 Acq: 15 Jul 2020 16:00

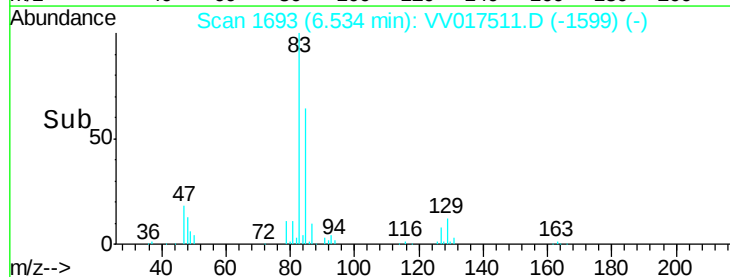
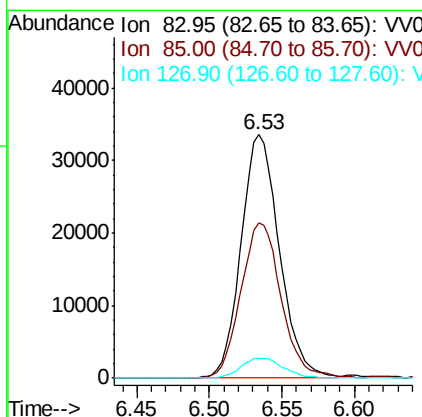
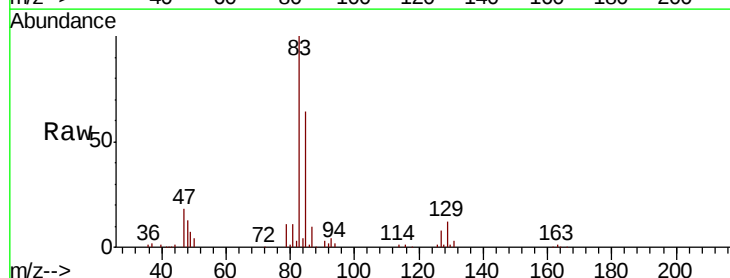
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00553

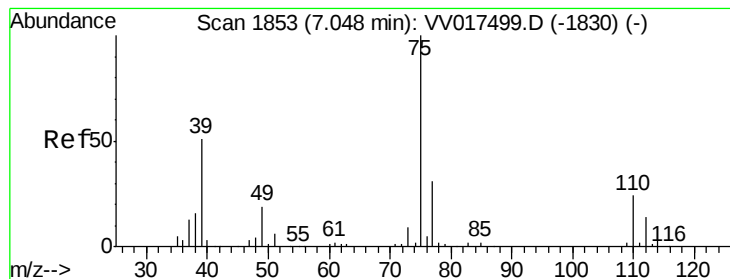
Tot Ion: 63 Resp: 38932
 Ion Ratio Lower Upper
 63 100
 112 6.1 4.4 6.6



#38
 Bromodichloromethane
 Concen: 4.869 ug/L
 RT: 6.53 min Scan# 1693
 Delta R.T. 0.00 min
 Lab File: VV017511.D
 Acq: 15 Jul 2020 16:00

Tgt Ion: 83 Resp: 61834
 Ion Ratio Lower Upper
 83 100
 85 63.9 45.0 83.6
 127 8.3 7.5 11.3





#39

cis-1,3-Dichloropropene

Concen: 4.873 ug/L

RT: 7.05 min Scan# 1853

Delta R.T. 0.00 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

Instrument :

MSVOA_V

ClientSampleId :

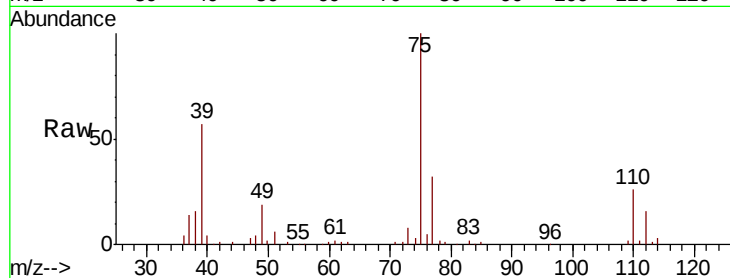
VSTD00553

Tot Ion: 75 Resp: 64275

Ion Ratio Lower Upper

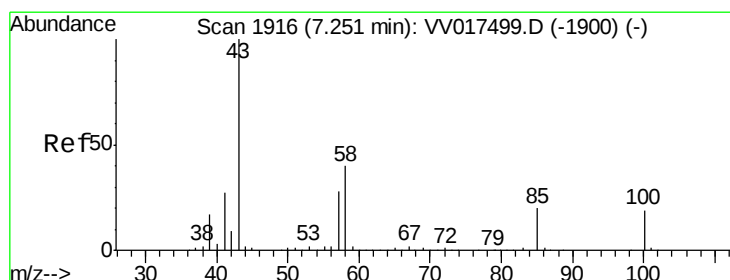
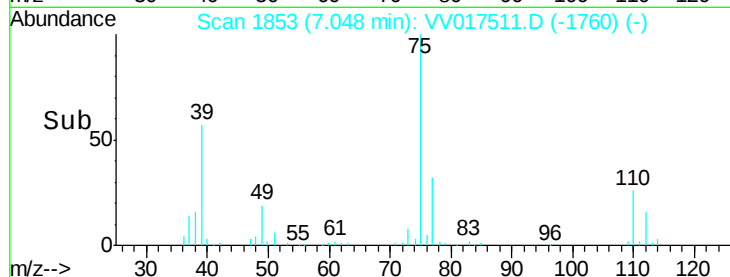
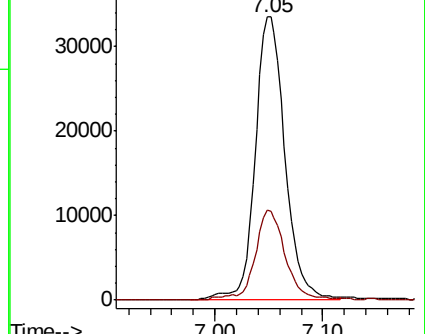
75 100

77 31.7 22.3 41.5



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#40

4-Methyl-2-pentanone

Concen: 50.715 ug/L

RT: 7.25 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

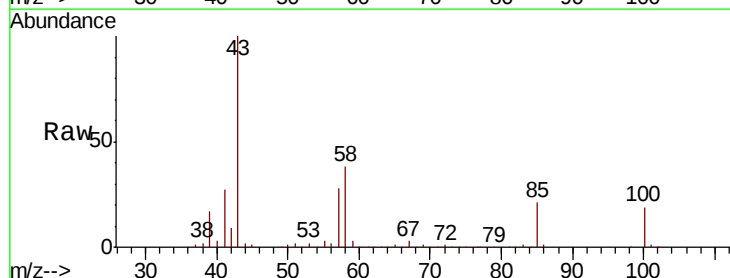
Tgt Ion: 43 Resp: 219771

Ion Ratio Lower Upper

43 100

58 37.9 31.0 46.4

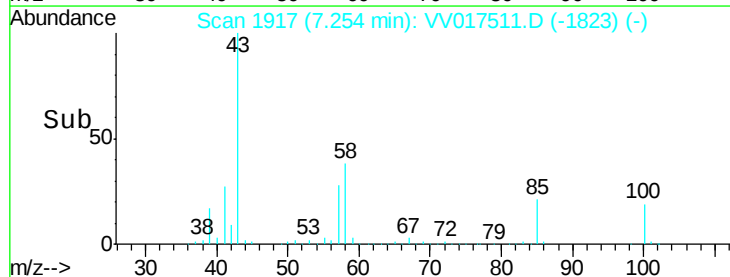
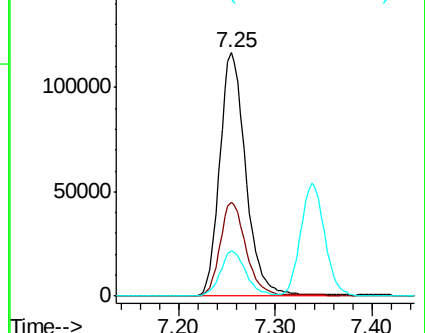
100 18.3 14.4 21.6

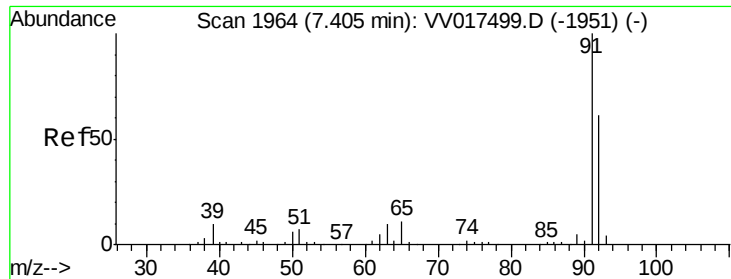


Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 100.15 (99.85 to 100.85): VV0





#42

Toluene

Concen: 5.245 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

Instrument :

MSVOA_V

ClientSampleId :

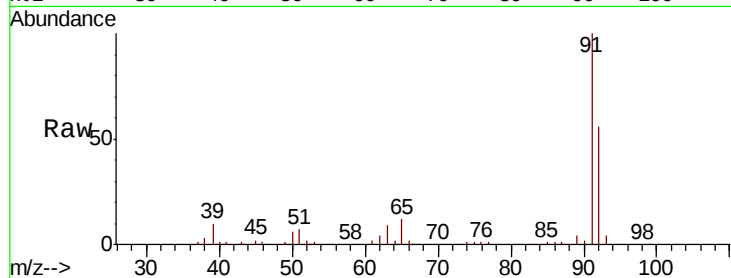
VSTD00553

Tot Ion: 91 Resp: 205122

Ion Ratio Lower Upper

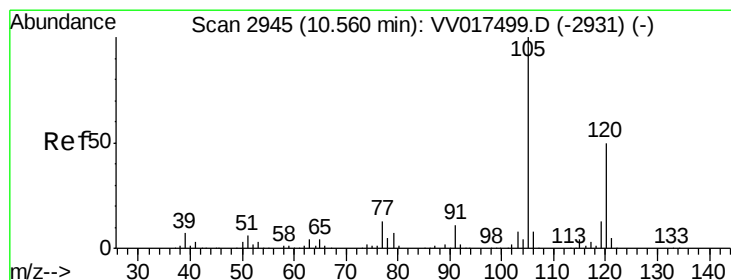
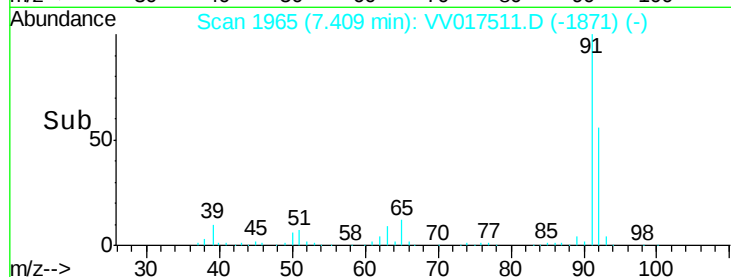
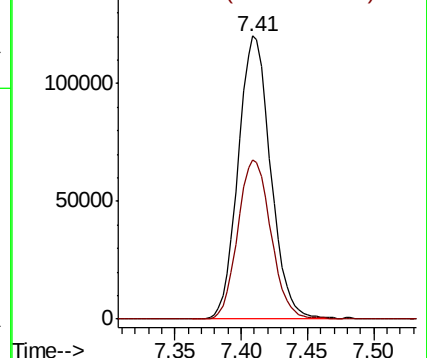
91 100

92 56.2 40.7 75.5



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#43

1,3,5-Trimethylbenzene

Concen: 5.186 ug/L

RT: 10.56 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VV017511.D

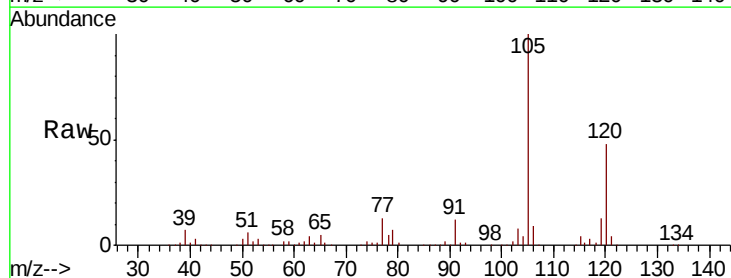
Acq: 15 Jul 2020 16:00

Tgt Ion: 105 Resp: 201291

Ion Ratio Lower Upper

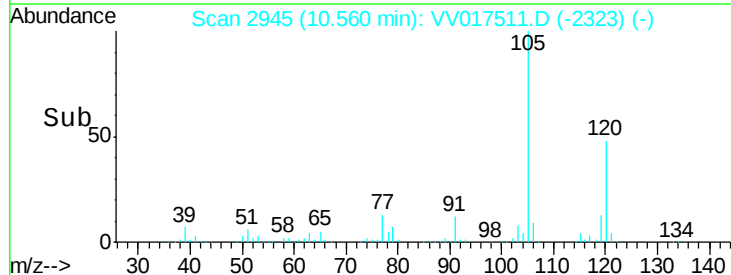
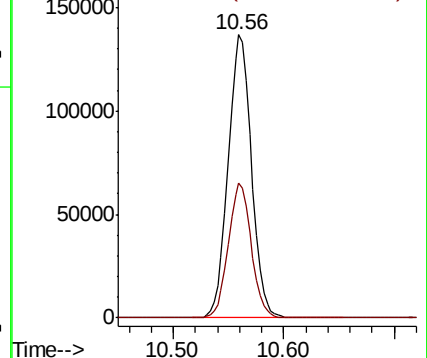
105 100

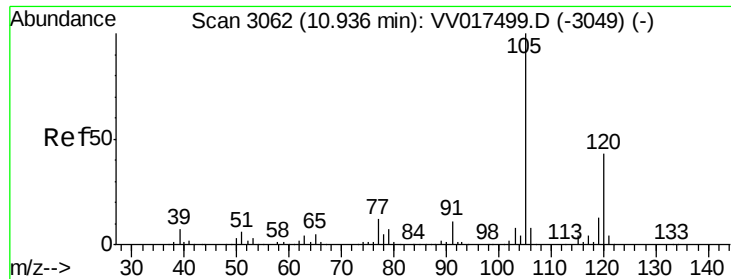
120 46.9 38.6 58.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

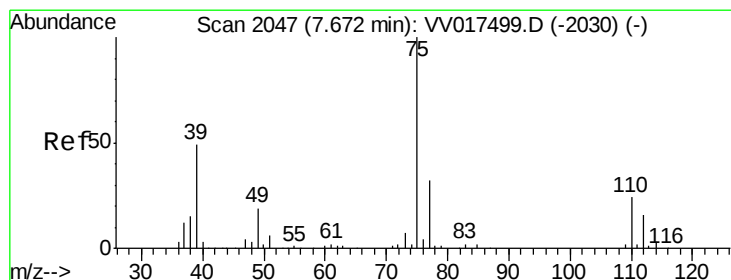
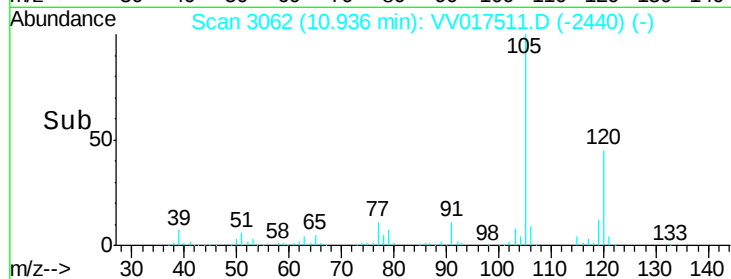
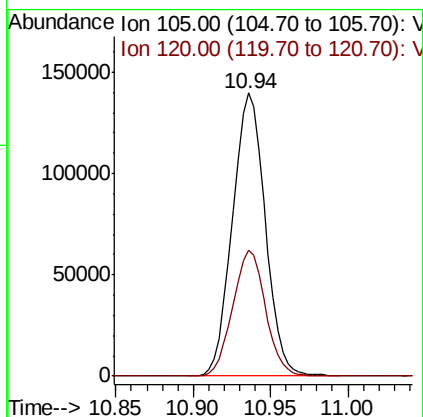
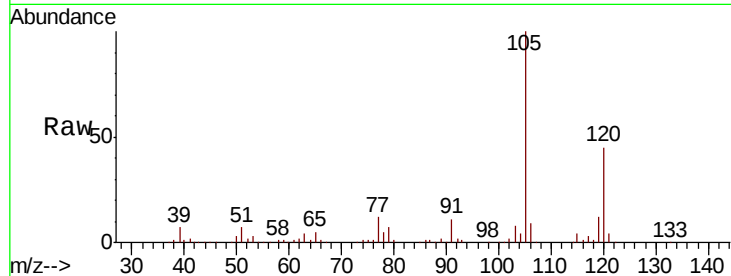




#44
 1,2,4-Trimethylbenzene
 Concen: 5.314 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. 0.00 min
 Lab File: VV017511.D
 Acq: 15 Jul 2020 16:00

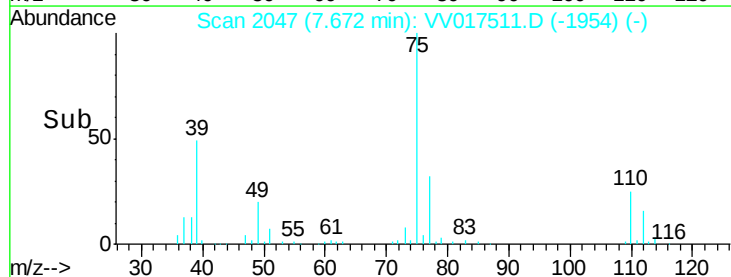
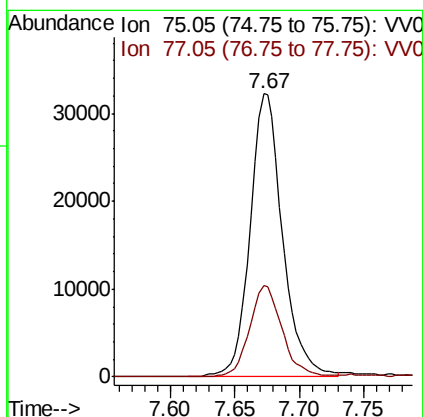
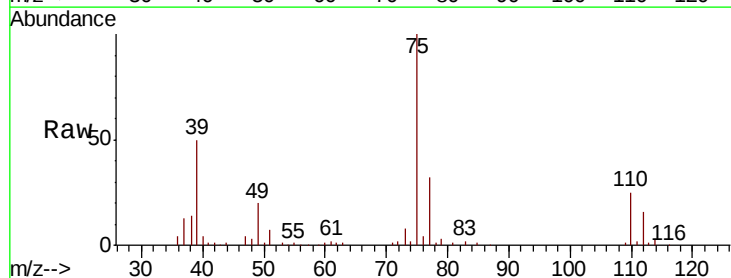
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00553

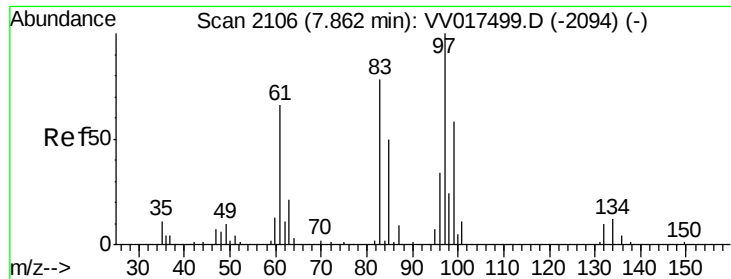
Tot Ion:105 Resp: 205456
 Ion Ratio Lower Upper
 105 100
 120 44.5 35.6 53.4



#46
 trans-1,3-Dichloropropene
 Concen: 4.890 ug/L
 RT: 7.67 min Scan# 2047
 Delta R.T. 0.00 min
 Lab File: VV017511.D
 Acq: 15 Jul 2020 16:00

Tgt Ion: 75 Resp: 56761
 Ion Ratio Lower Upper
 75 100
 77 32.2 21.2 39.4

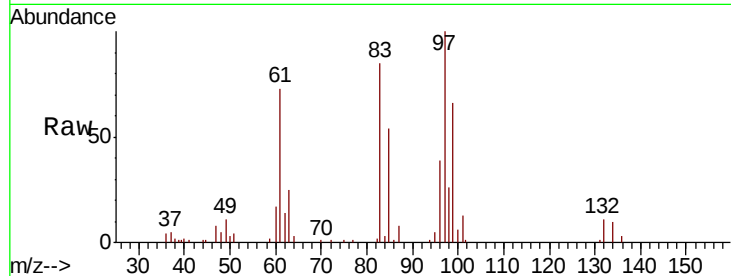




#47
 1,1,2-Trichloroethane
 Concen: 4.875 ug/L
 RT: 7.86 min Scan# 2106
 Delta R.T. 0.00 min
 Lab File: VV017511.D
 Acq: 15 Jul 2020 16:00

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00553

Tot Ion:	97	Resp:	29862
Ion	Ratio	Lower	Upper
97	100		
99	66.3	44.0	81.6
83	84.9	57.7	107.3
85	53.7	41.9	77.9



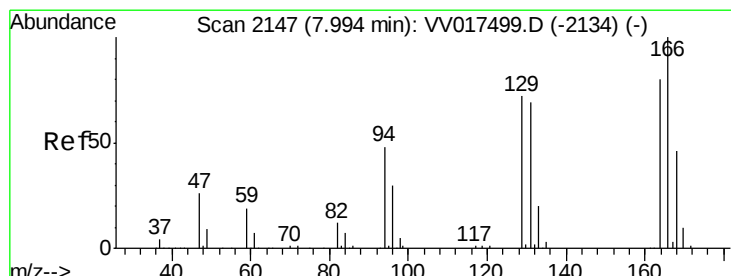
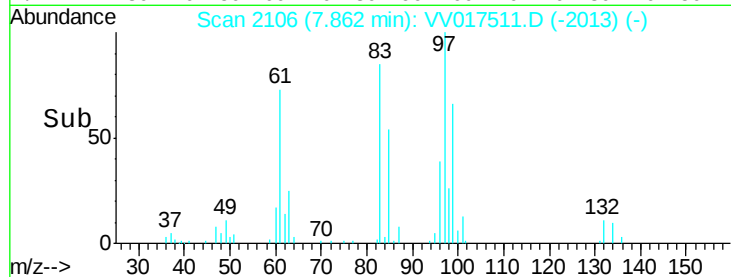
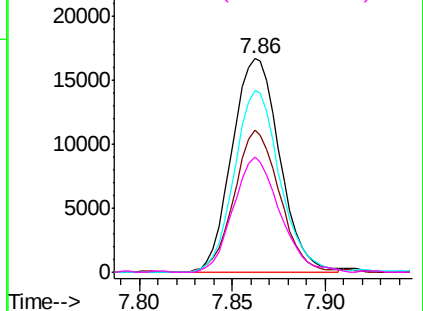
Abundance

Ion 96.95 (96.65 to 97.65): VV017511.D (-2013) (-)

Ion 99.05 (98.75 to 99.75): VV017511.D (-2013) (-)

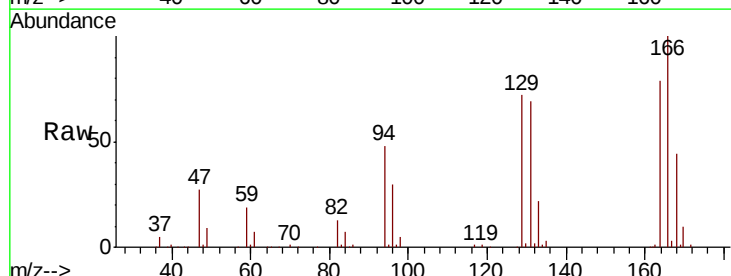
Ion 82.95 (82.65 to 83.65): VV017511.D (-2013) (-)

Ion 85.00 (84.70 to 85.70): VV017511.D (-2013) (-)



#49
 Tetrachloroethene
 Concen: 5.086 ug/L
 RT: 8.00 min Scan# 2148
 Delta R.T. 0.00 min
 Lab File: VV017511.D
 Acq: 15 Jul 2020 16:00

Tgt Ion:	164	Resp:	46800
Ion	Ratio	Lower	Upper
164	100		
129	90.2	64.1	119.1
131	87.1	60.6	112.6
166	125.8	88.8	164.8



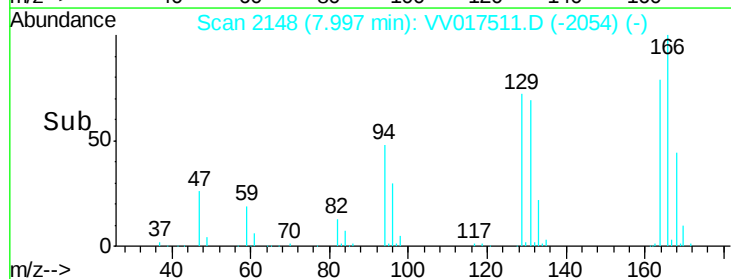
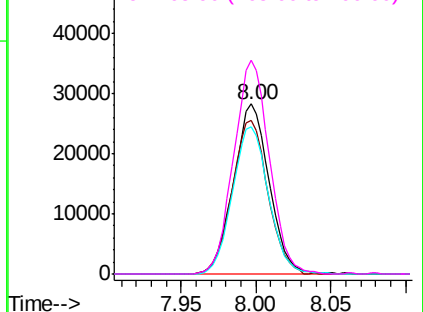
Abundance

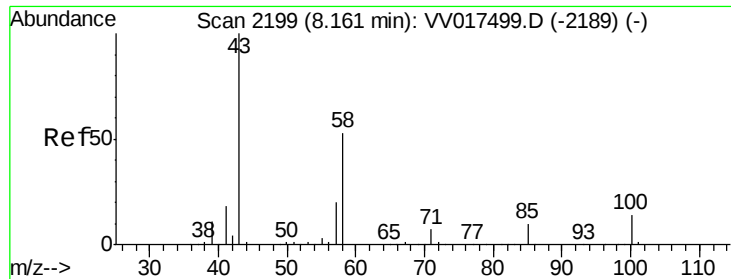
Ion 163.90 (163.60 to 164.60): VV017511.D (-2054) (-)

Ion 128.95 (128.65 to 129.65): VV017511.D (-2054) (-)

Ion 130.95 (130.65 to 131.65): VV017511.D (-2054) (-)

Ion 165.90 (165.60 to 166.60): VV017511.D (-2054) (-)

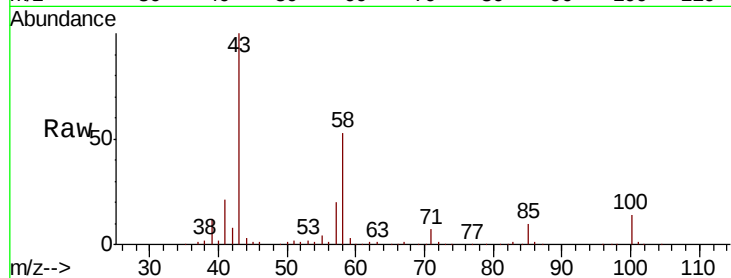




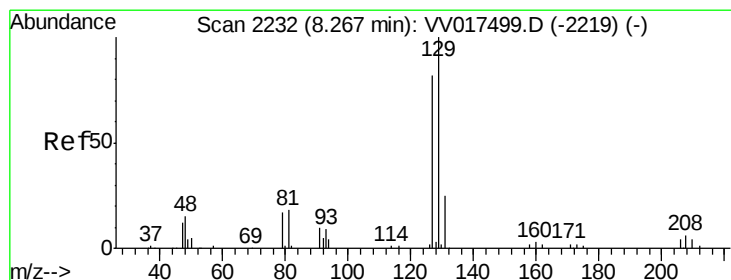
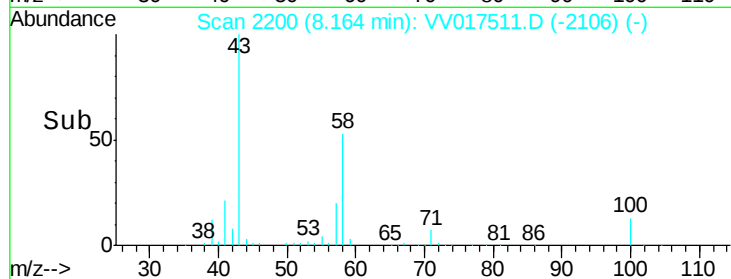
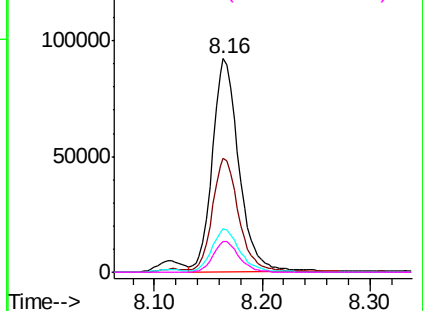
#50
2-Hexanone
Concen: 49.319 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.00 min
Lab File: VV017511.D
Acq: 15 Jul 2020 16:00

Instrument :
MSVOA_V
ClientSampled :
VSTD00553

Tot Ion: 43 Resp: 157022
Ion Ratio Lower Upper
43 100
58 53.3 43.0 64.4
57 21.3 16.8 25.2
100 14.2 11.8 17.6

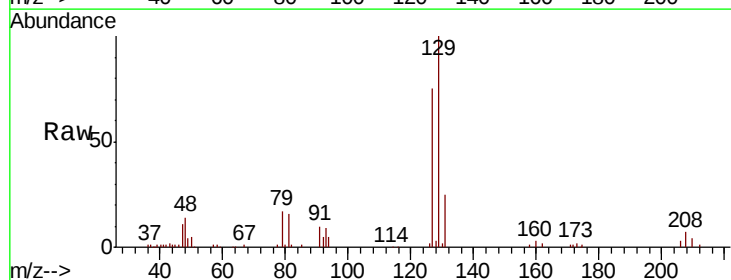


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

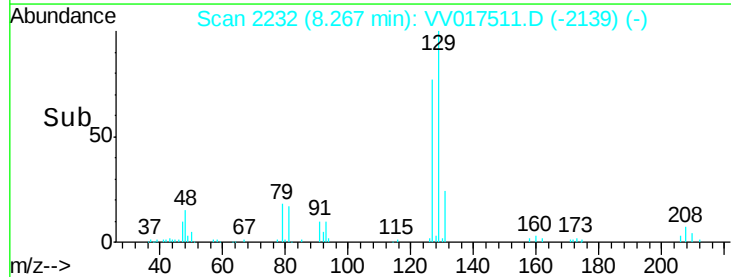
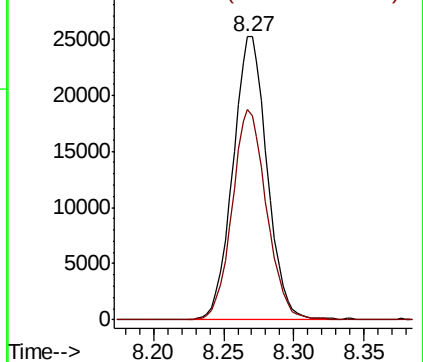


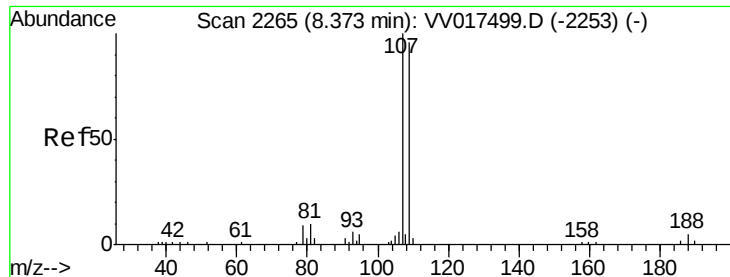
#51
Dibromochloromethane
Concen: 5.078 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. 0.00 min
Lab File: VV017511.D
Acq: 15 Jul 2020 16:00

Tgt Ion: 129 Resp: 42865
Ion Ratio Lower Upper
129 100
127 74.5 52.4 97.4



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

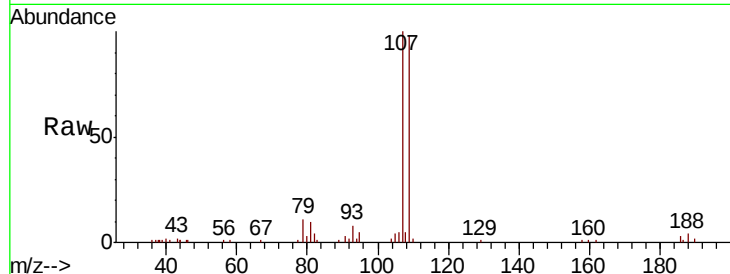




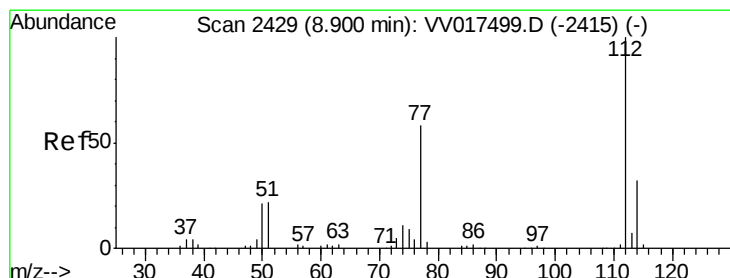
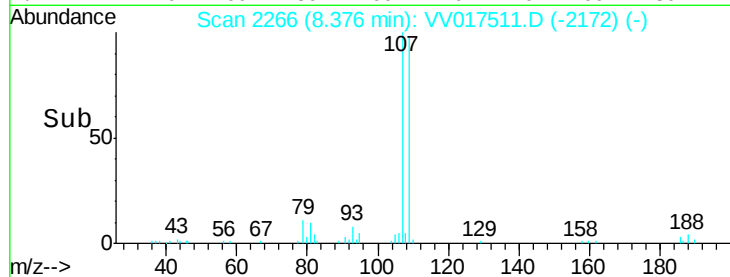
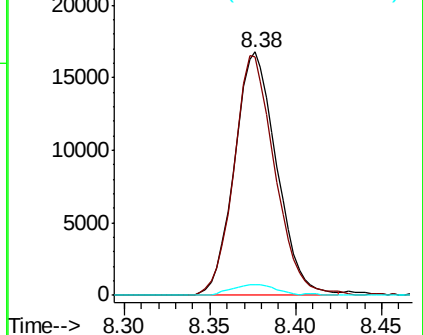
#52
1,2-Dibromoethane
Concen: 4.770 ug/L
RT: 8.38 min Scan# 2266
Delta R.T. 0.00 min
Lab File: VV017511.D
Acq: 15 Jul 2020 16:00

Instrument :
MSVOA_V
ClientSampleId :
VSTD00553

Tot Ion:107 Resp: 28623
Ion Ratio Lower Upper
107 100
109 98.0 67.0 124.4
188 4.5 2.7 4.1#

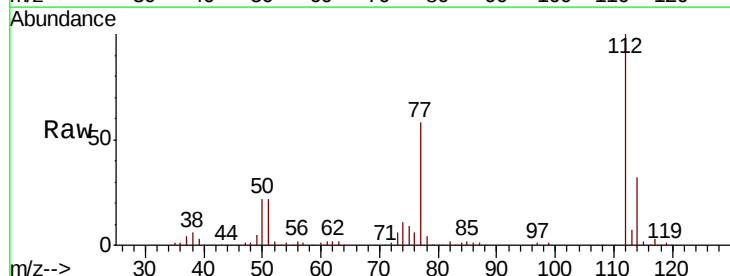


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

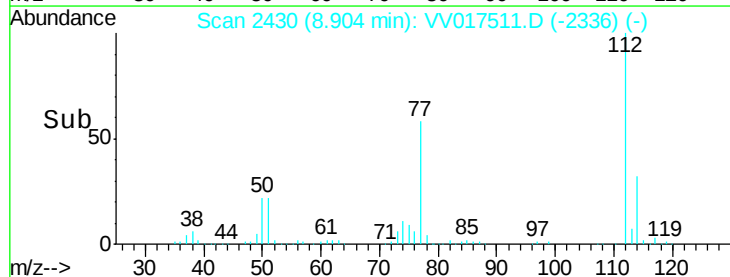
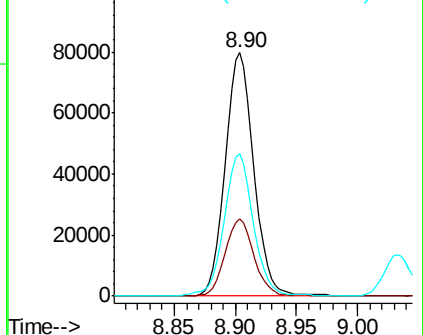


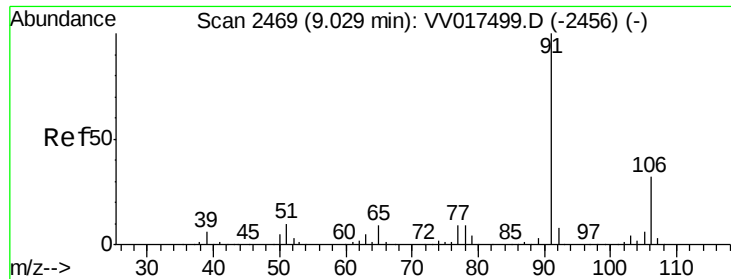
#53
Chlorobenzene
Concen: 5.004 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV017511.D
Acq: 15 Jul 2020 16:00

Tgt Ion:112 Resp: 131074
Ion Ratio Lower Upper
112 100
114 31.8 22.4 41.6
77 58.3 47.0 70.4



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): VV0





#54

Ethylbenzene

Concen: 5.122 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

Instrument :

MSVOA_V

ClientSampleId :

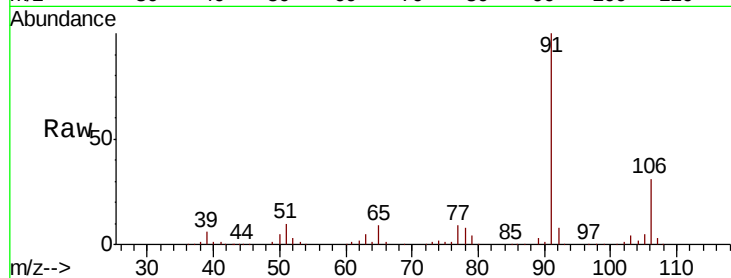
VSTD00553

Tot Ion: 91 Resp: 229251

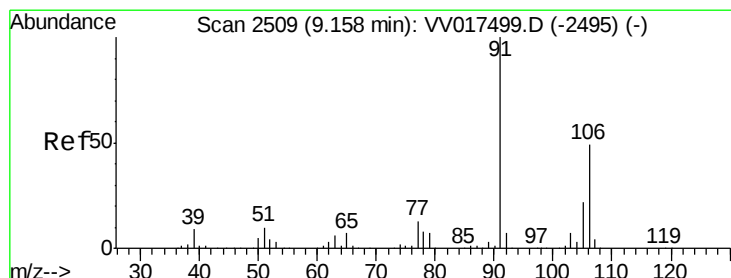
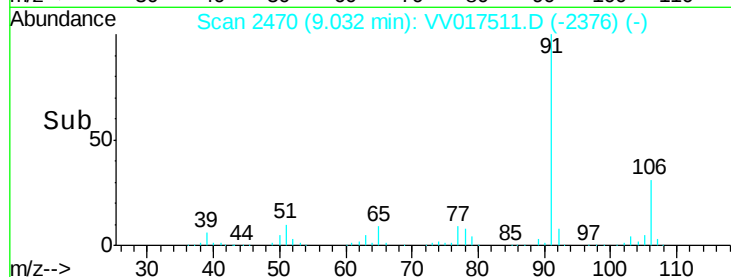
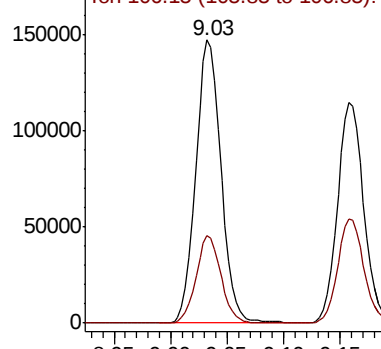
Ion Ratio Lower Upper

91 100

106 30.8 21.9 40.7



Abundance Ion 91.15 (90.85 to 91.85): VV017511.D (-2456) (-)



#55

m,p-xylene

Concen: 5.150 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV017511.D

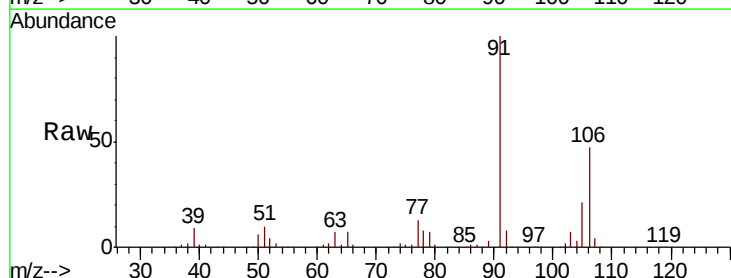
Acq: 15 Jul 2020 16:00

Tgt Ion: 106 Resp: 87172

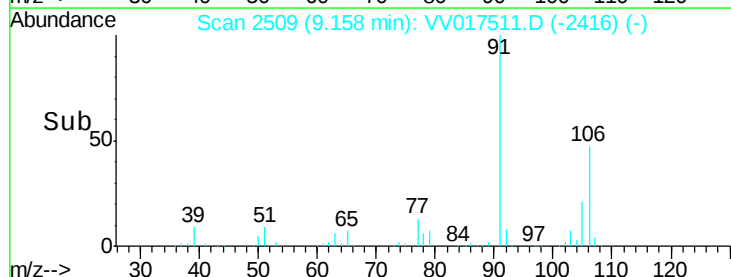
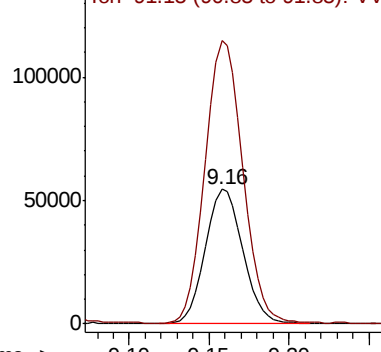
Ion Ratio Lower Upper

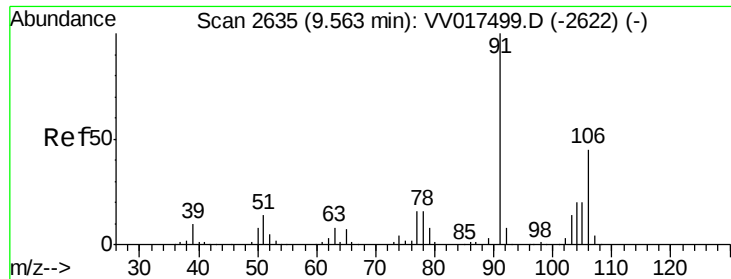
106 100

91 210.6 144.2 267.8



Abundance Ion 106.15 (105.85 to 106.85): VV017511.D (-2495) (-)

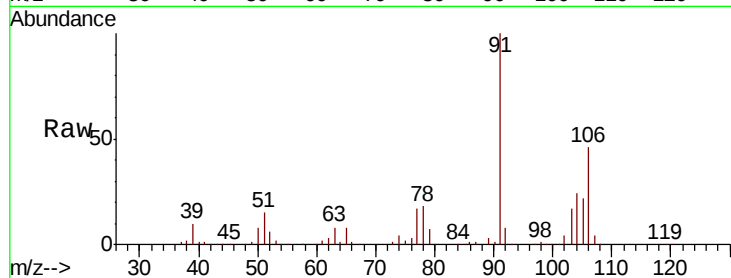




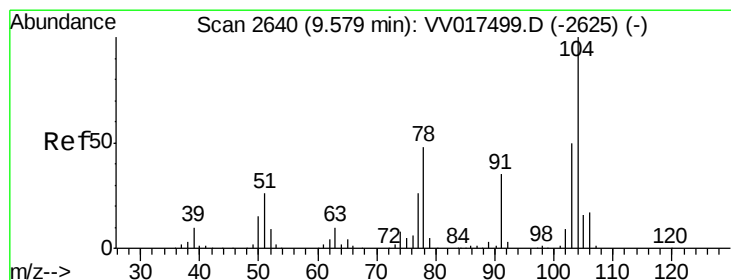
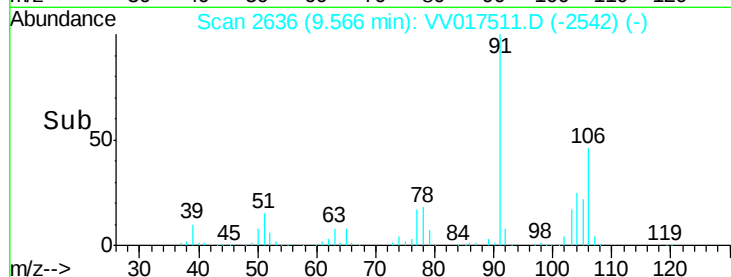
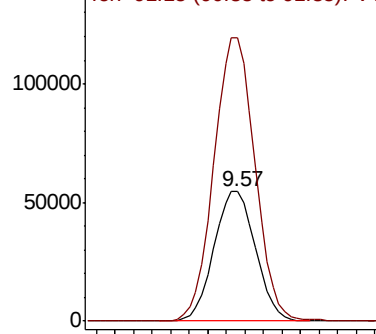
#56
o-xylene
Concen: 5.208 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV017511.D
Acq: 15 Jul 2020 16:00

Instrument :
MSVOA_V
ClientSampleId :
VSTD00553

Tot Ion:106 Resp: 85262
Ion Ratio Lower Upper
106 100
91 218.5 158.8 294.8

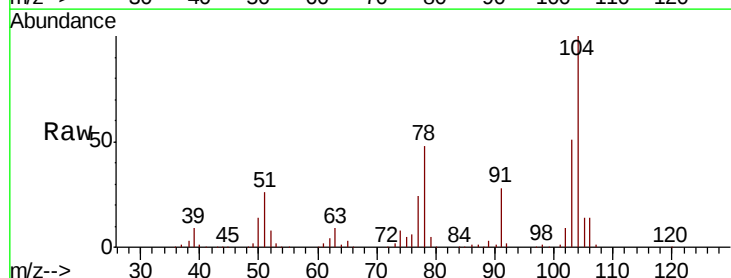


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

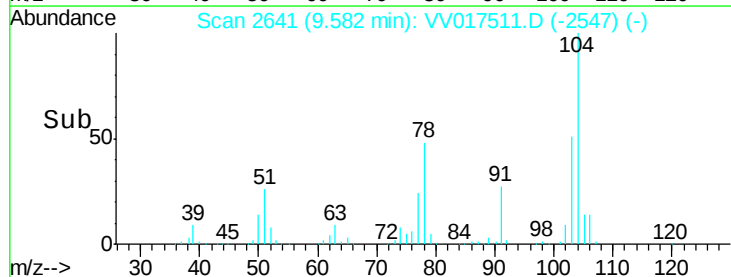
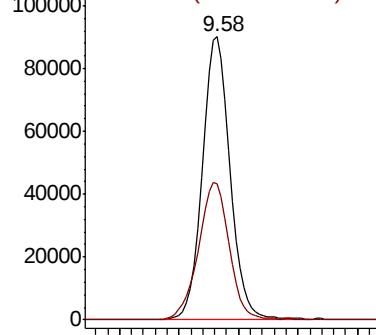


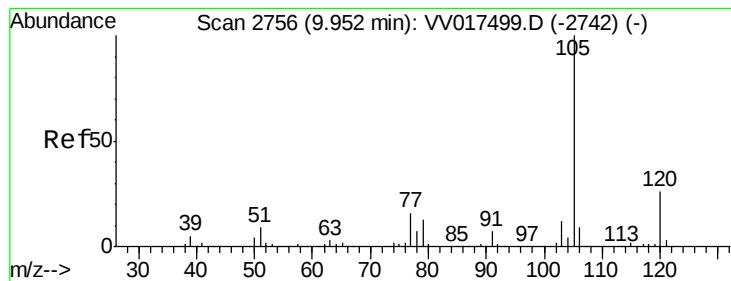
#57
Styrene
Concen: 5.278 ug/L
RT: 9.58 min Scan# 2641
Delta R.T. 0.00 min
Lab File: VV017511.D
Acq: 15 Jul 2020 16:00

Tgt Ion:104 Resp: 145422
Ion Ratio Lower Upper
104 100
78 48.1 33.5 62.1



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VV0





#58

Isopropylbenzene

Concen: 5.084 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD00553

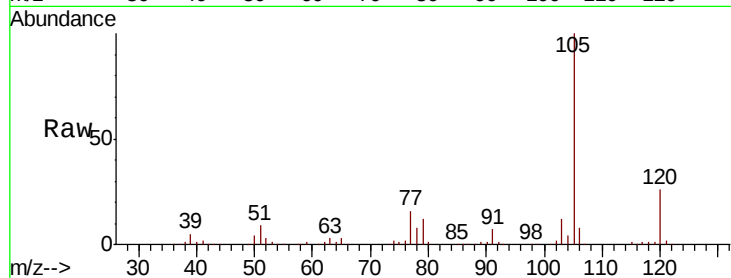
Tot Ion:105 Resp: 235622

Ion Ratio Lower Upper

105 100

120 26.4 21.3 31.9

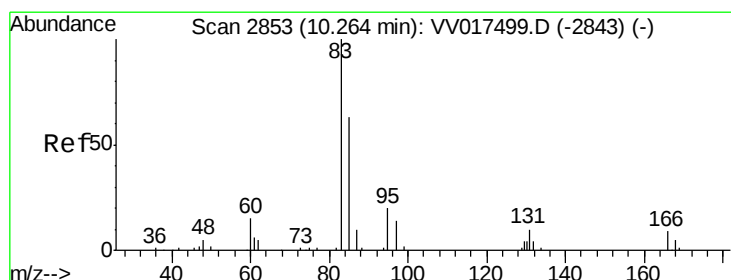
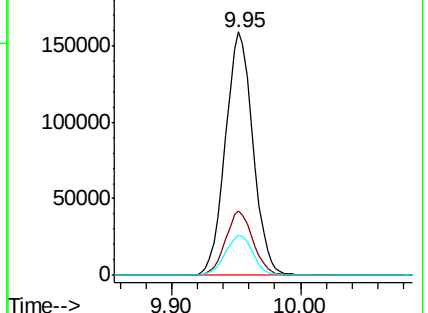
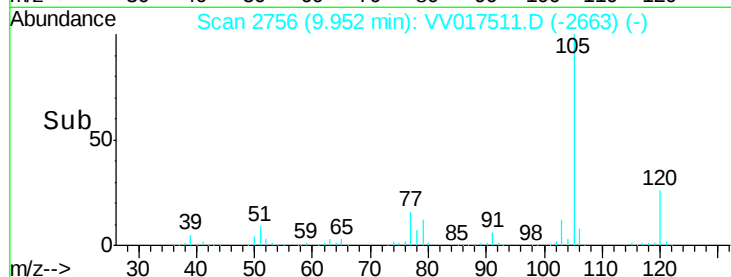
77 16.6 13.3 19.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#60

1,1,2,2-Tetrachloroethane

Concen: 5.085 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

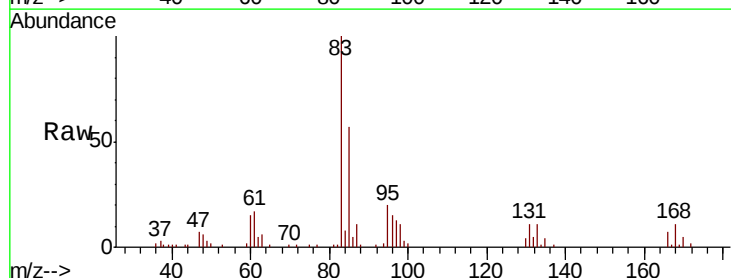
Tgt Ion: 83 Resp: 31459

Ion Ratio Lower Upper

83 100

85 57.1 49.1 91.3

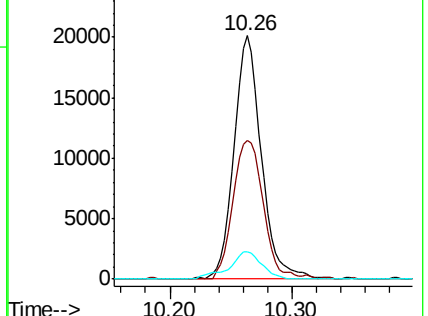
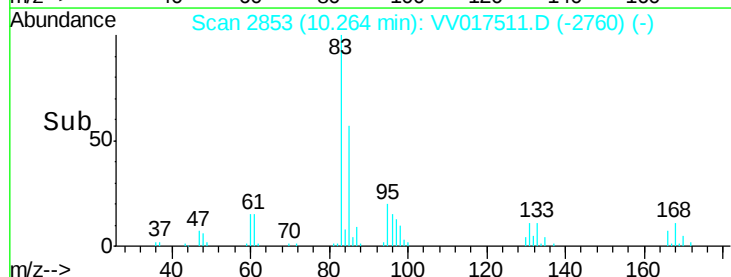
131 11.5 9.8 14.6

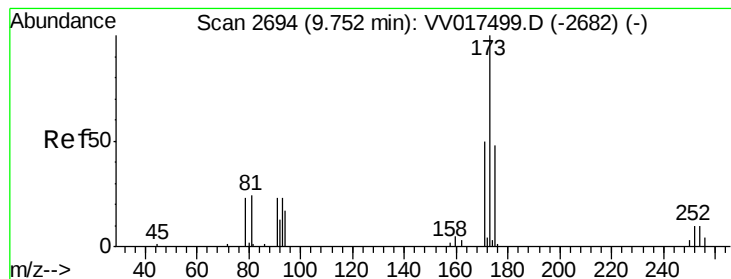


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#62

Bromoform

Concen: 4.743 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD00553

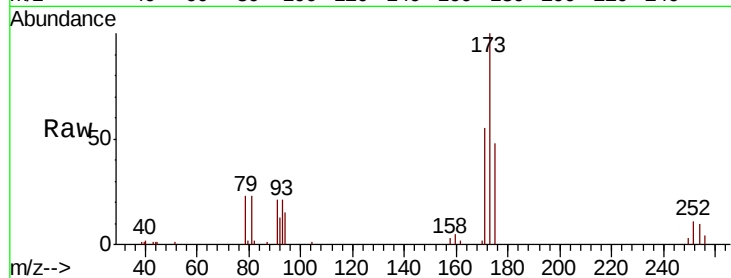
Tot Ion:173 Resp: 22826

Ion Ratio Lower Upper

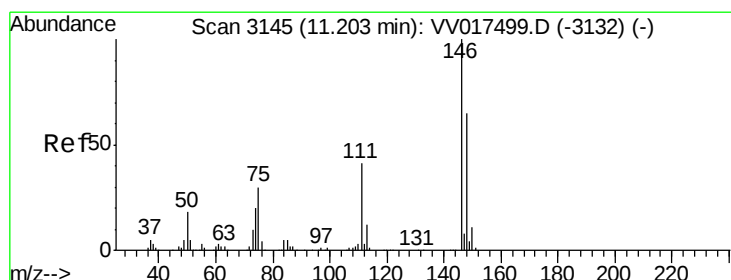
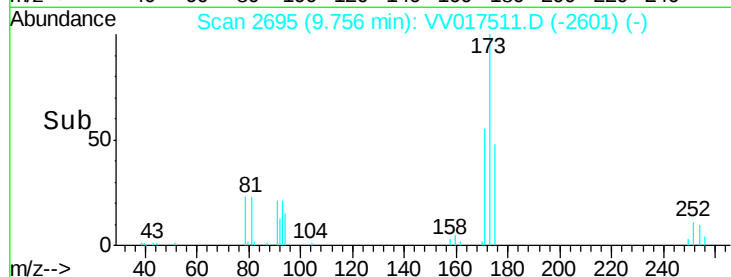
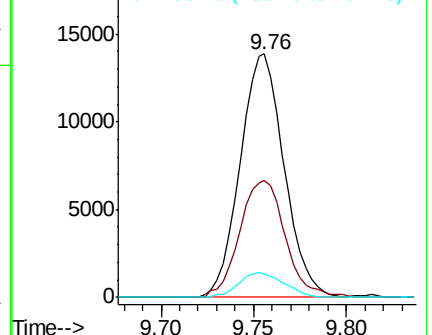
173 100

175 49.9 39.8 59.8

254 10.5 8.5 12.7



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V



#63

1,3-Dichlorobenzene

Concen: 5.124 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

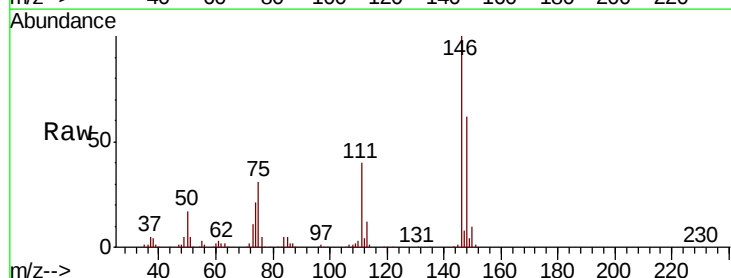
Tgt Ion:146 Resp: 119222

Ion Ratio Lower Upper

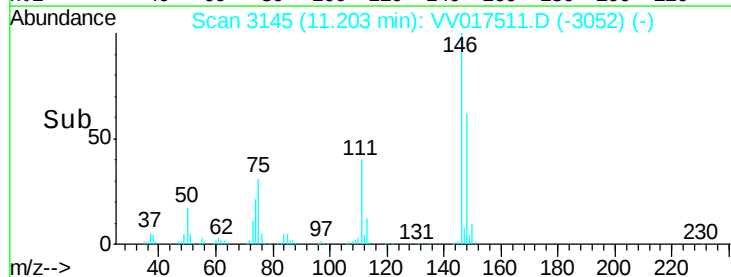
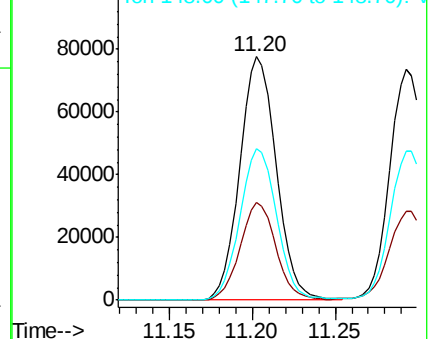
146 100

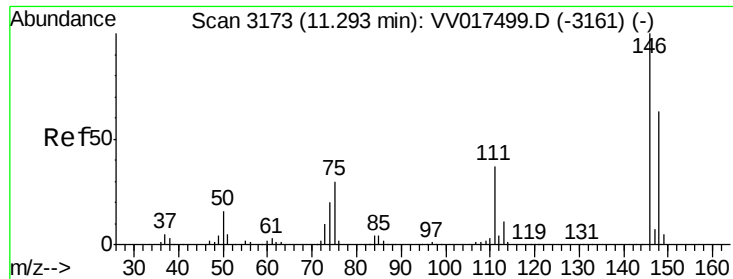
111 40.0 27.2 50.6

148 62.4 45.6 84.6



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 4.998 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD00553

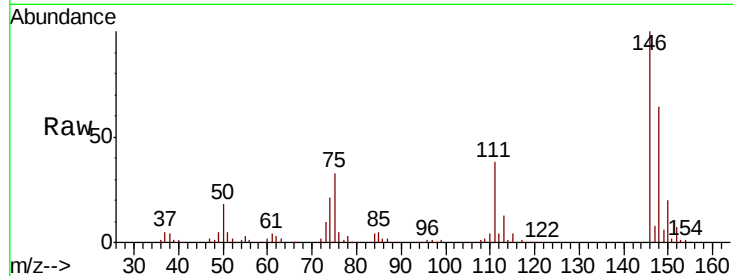
Tot Ion:146 Resp: 115420

Ion Ratio Lower Upper

146 100

111 38.3 26.9 50.1

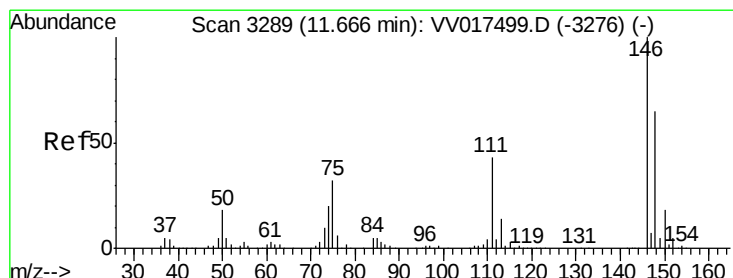
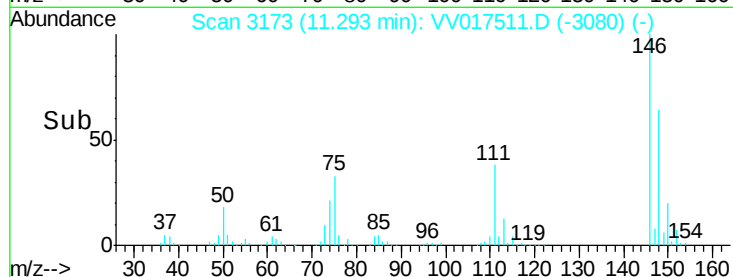
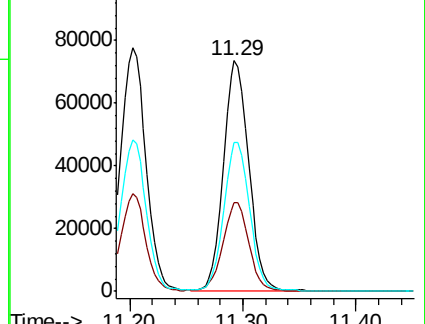
148 64.4 46.1 85.5



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dichlorobenzene

Concen: 4.910 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV017511.D

Acq: 15 Jul 2020 16:00

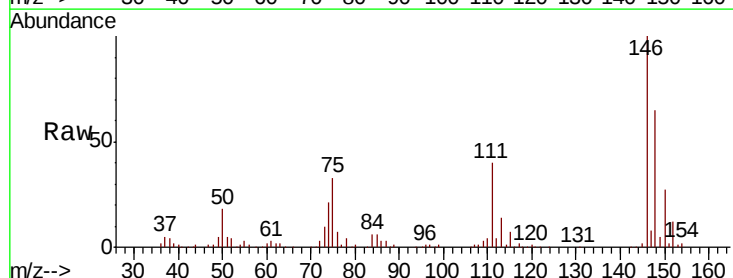
Tgt Ion:146 Resp: 103526

Ion Ratio Lower Upper

146 100

111 40.2 32.7 49.1

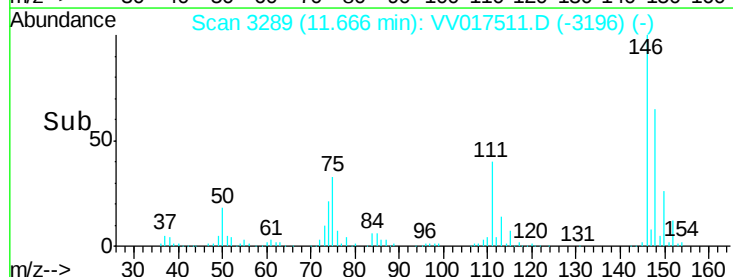
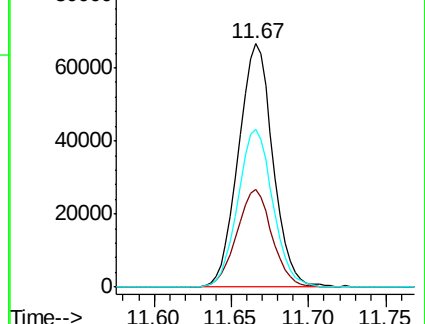
148 64.8 52.3 78.5

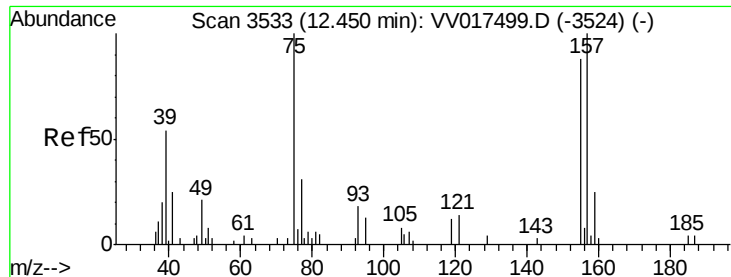


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

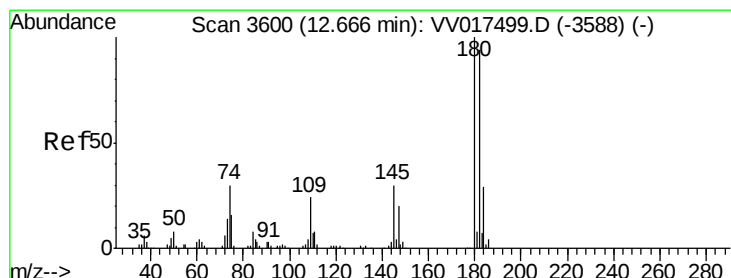
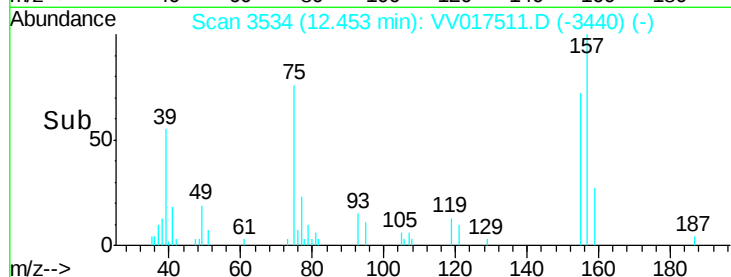
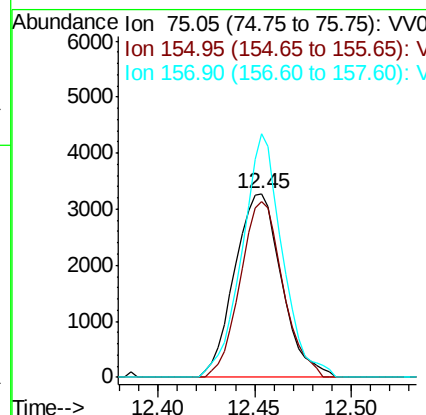
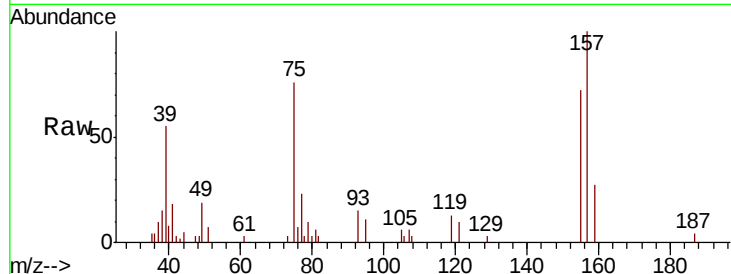




#67
 1,2-Dibromo-3-chloropropane
 Concen: 4.280 ug/L
 RT: 12.45 min Scan# 3534
 Delta R.T. 0.00 min
 Lab File: VV017511.D
 Acq: 15 Jul 2020 16:00

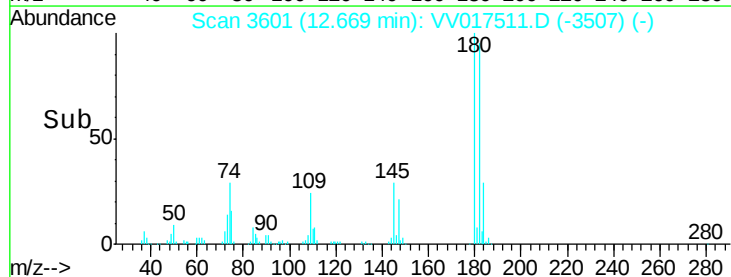
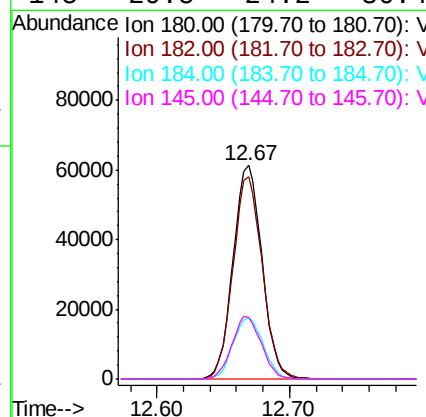
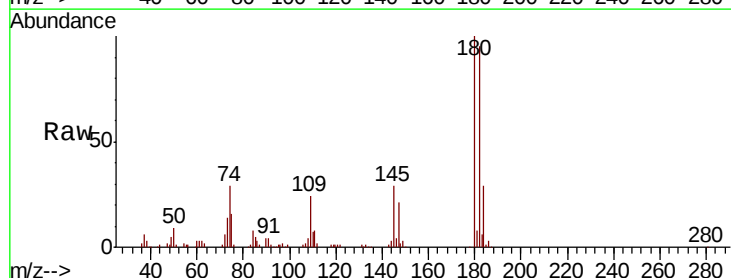
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00553

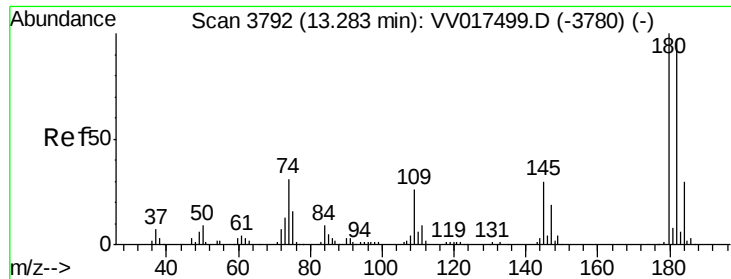
Tot Ion: 75 Resp: 5559
 Ion Ratio Lower Upper
 75 100
 155 95.2 67.5 101.3
 157 132.3 92.5 138.7



#68
 1,3,5-Trichlorobenzene
 Concen: 4.919 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV017511.D
 Acq: 15 Jul 2020 16:00

Tgt Ion: 180 Resp: 93066
 Ion Ratio Lower Upper
 180 100
 182 95.6 76.2 114.4
 184 29.7 24.3 36.5
 145 29.5 24.2 36.4

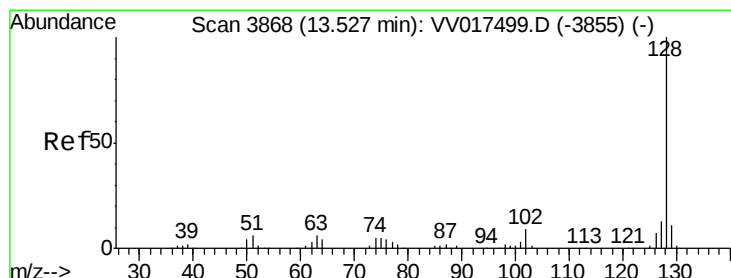
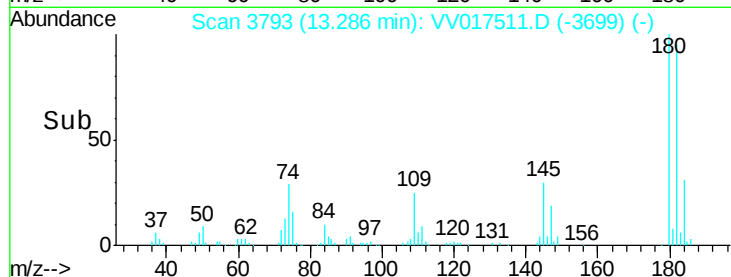
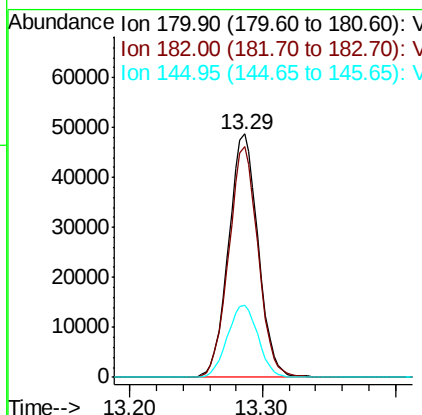
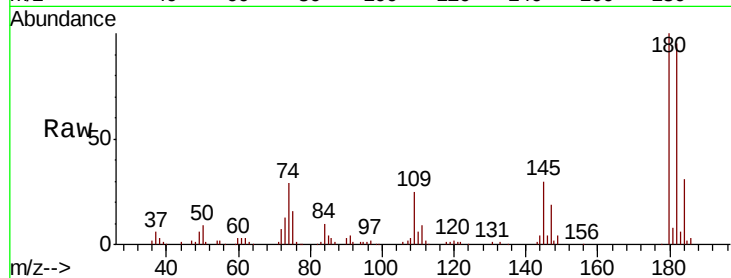




#69
 1,2,4-trichlorobenzene
 Concen: 4.858 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV017511.D
 Acq: 15 Jul 2020 16:00

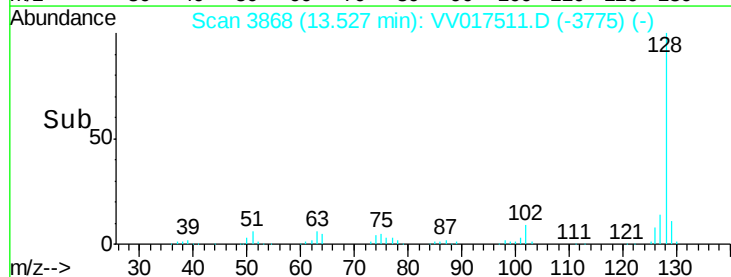
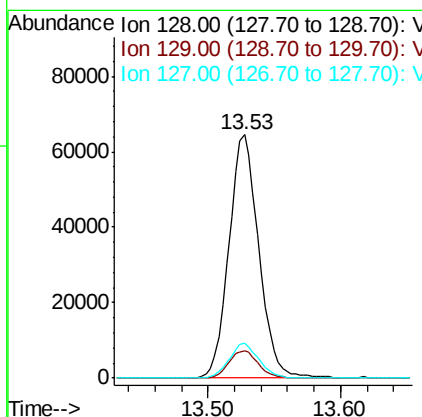
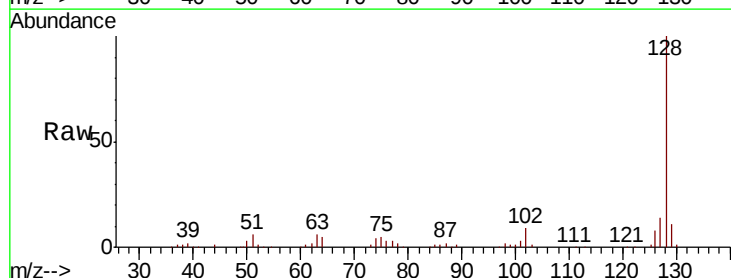
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00553

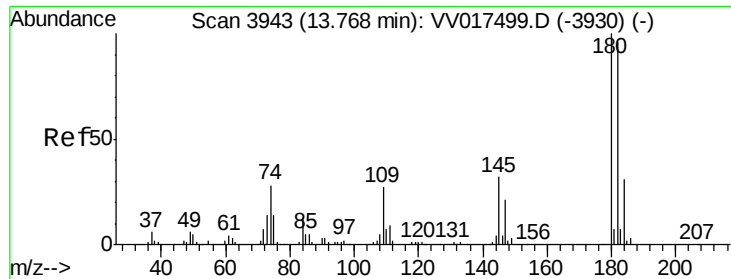
Tot Ion:180 Resp: 75478
 Ion Ratio Lower Upper
 180 100
 182 93.8 75.0 112.6
 145 30.8 24.5 36.7



#70
 Naphthalene
 Concen: 4.611 ug/L
 RT: 13.53 min Scan# 3868
 Delta R.T. 0.00 min
 Lab File: VV017511.D
 Acq: 15 Jul 2020 16:00

Tgt Ion:128 Resp: 100825
 Ion Ratio Lower Upper
 128 100
 129 11.1 8.5 12.7
 127 14.3 10.6 15.8





#71
 1,2,3-Trichlorobenzene
 Concen: 4.914 ug/L
 RT: 13.77 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VV017511.D
 Acq: 15 Jul 2020 16:00

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00553

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.0	74.0	111.0
145	34.8	26.0	39.0

