

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV040920\
 Data File : VV015444.D
 Acq On : 10 Apr 2020 01:56
 Operator : SY/MD
 Sample : L2207-04
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFS85

Quant Time: Apr 10 07:24:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR040920WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Apr 10 05:37:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	117706	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	113191	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	56143	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	28057	4.59	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.80%
7) Chloroethane-d5	1.58	69	26875	4.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.60%
11) 1,1-Dichloroethene-d2	2.12	63	40495	3.15	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.00%
20) 2-Butanone-d5	3.96	46	87983	51.31	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.62%
24) Chloroform-d	4.38	84	62916	4.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.00%
26) 1,2-Dichloroethane-d4	5.06	65	36434	5.00	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.00%
32) Benzene-d6	5.08	84	123049	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.00%
36) 1,2-Dichloropropane-d6	6.10	67	40008	5.12	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.40%
41) Toluene-d8	7.34	98	113044	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.40%
43) trans-1,3-Dichloropropene-	7.65	79	15005	4.41	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.20%
46) 2-Hexanone-d5	8.12	63	81852	49.90	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.80%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	29766	4.80	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.00%
64) 1,2-Dichlorobenzene-d4	11.65	152	44741	4.96	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.20%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	16128	1.510	ug/L 96
18) trans-1,2-Dichloroethene	2.78	96	925	0.111	ug/L 87
19) 1,1-Dichloroethane	3.21	63	34012	2.167	ug/L 99
22) cis-1,2-Dichloroethene	3.94	96	43278	5.006	ug/L 98
27) 1,2-Dichloroethane	5.16	62	14766	1.422	ug/L 99
29) 1,1,1-Trichloroethane	4.63	97	1697	0.116	ug/L 97
30) Cyclohexane	4.70	56	27587	1.769	ug/L 94
33) Benzene	5.13	78	298045	8.798	ug/L 100
34) Trichloroethene	5.94	95	8493	0.931	ug/L 99
35) Methylcyclohexane	6.15	83	9511	0.619	ug/L # 80
42) Toluene	7.41	91	19931	0.542	ug/L 97
47) Tetrachloroethene	8.00	164	1056	0.156	ug/L 96
51) Chlorobenzene	8.90	112	240131	10.242	ug/L 100
52) Ethylbenzene	9.04	91	146421	3.458	ug/L 99
53) m,p-xylene	9.16	106	216760	13.556	ug/L 100
54) o-xylene	9.57	106	56179	3.630	ug/L 95
56) Isopropylbenzene	9.95	105	55340	1.304	ug/L 100

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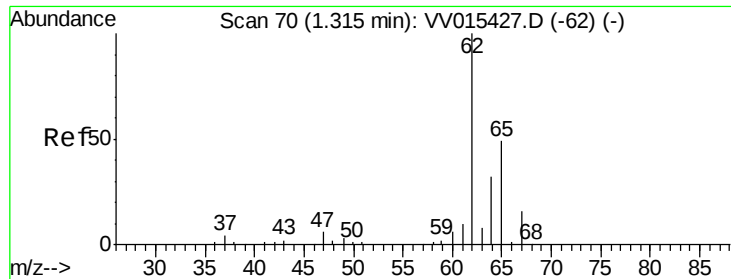
Instrument :
MSVOA_V
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR040920WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Apr 10 05:37:21 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3-Dichlorobenzene	11.21	146	5510	0.304	ug/L	97
63) 1,4-Dichlorobenzene	11.30	146	16380	0.889	ug/L	99
65) 1,2-Dichlorobenzene	11.67	146	132058	8.002	ug/L	98
68) 1,2,4-trichlorobenzene	13.29	180	3617	0.307	ug/L	97

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

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Misc : 25.0mL/MSVOA V/WATER
ALS Vial : 37 Sample Multiplier: 1



#5

Vinyl chloride

Concen: 1.510 ug/L

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VV015444.D

Acq: 10 Apr 2020 01:56

Instrument :

MSVOA_V

ClientSampled :

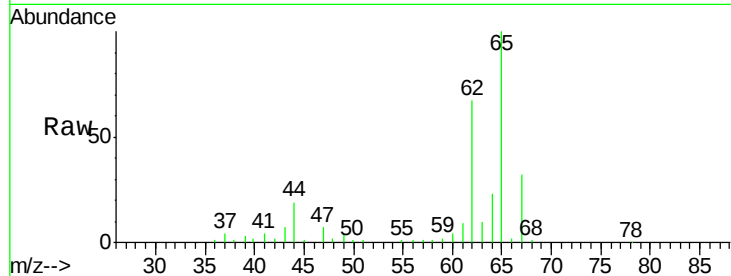
BFS85

Tot Ion: 62 Resp: 16128

Ion Ratio Lower Upper

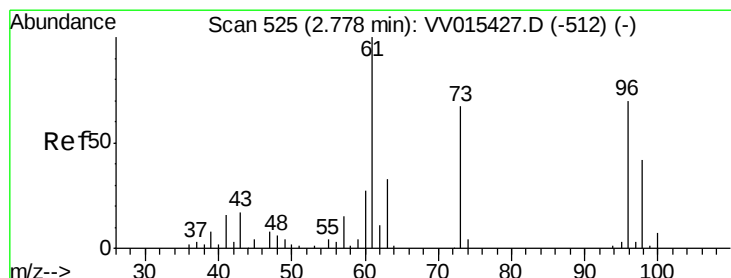
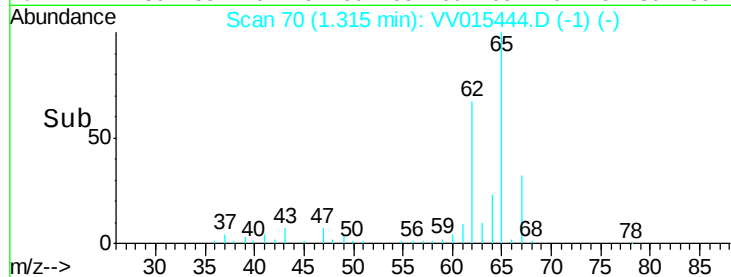
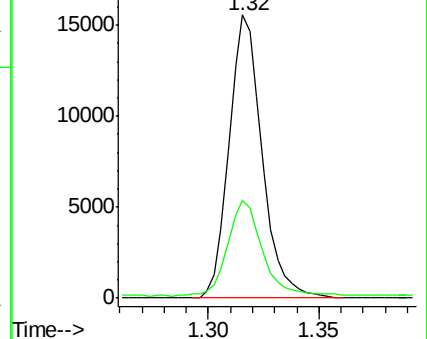
62 100

64 34.5 22.5 41.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#18

trans-1,2-Dichloroethene

Concen: 0.111 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV015444.D

Acq: 10 Apr 2020 01:56

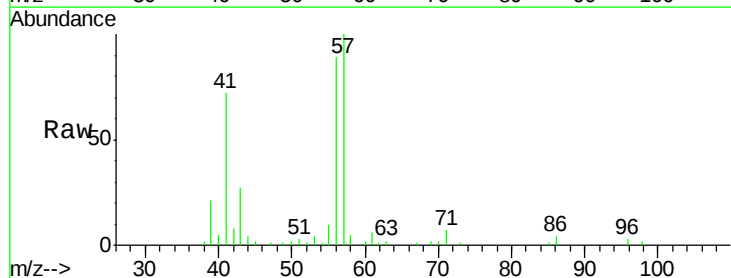
Tgt Ion: 96 Resp: 925

Ion Ratio Lower Upper

96 100

61 167.7 104.4 194.0

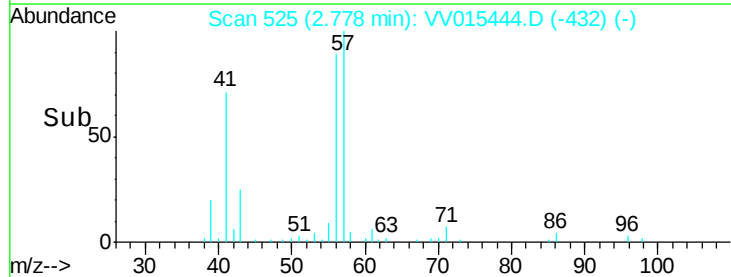
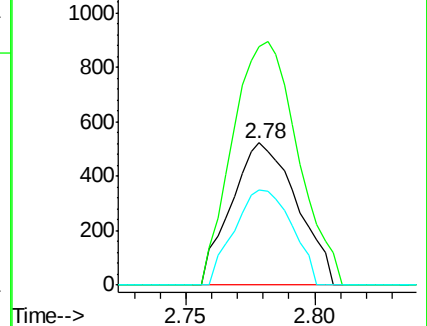
98 67.2 42.8 79.4

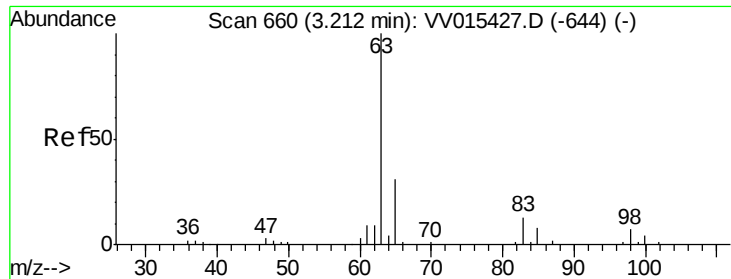


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0

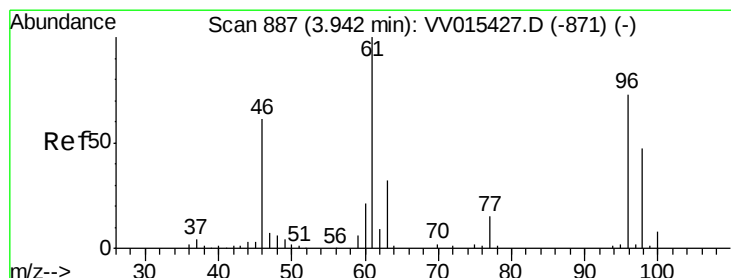
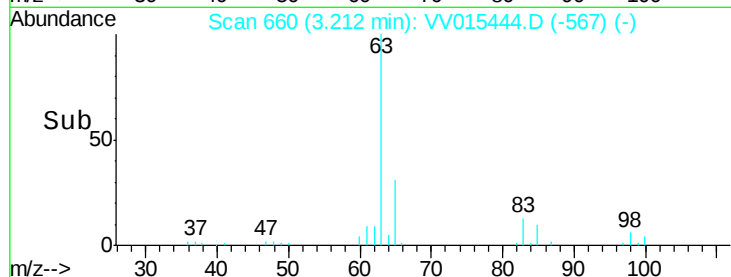
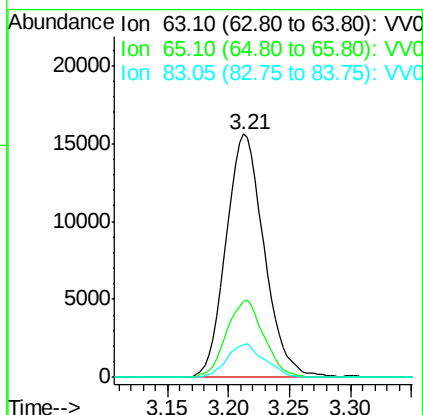
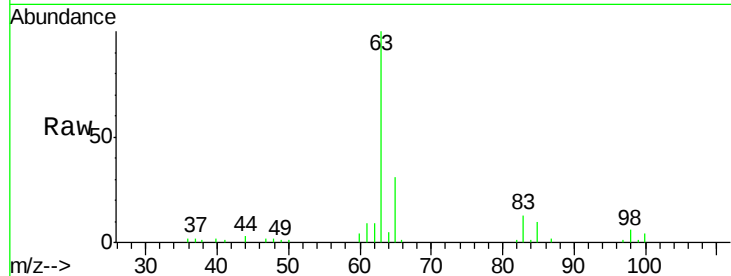




#19
 1,1-Dichloroethane
 Concen: 2.167 ug/L
 RT: 3.21 min Scan# 660
 Delta R.T. 0.00 min
 Lab File: VV015444.D
 Acq: 10 Apr 2020 01:56

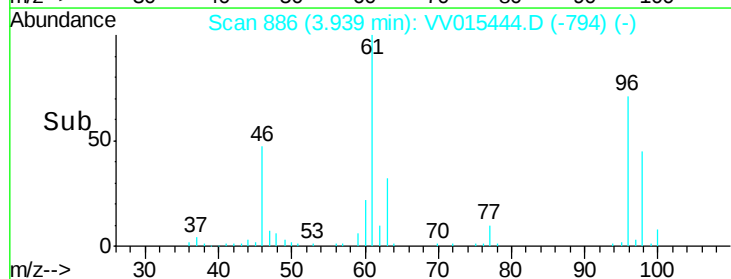
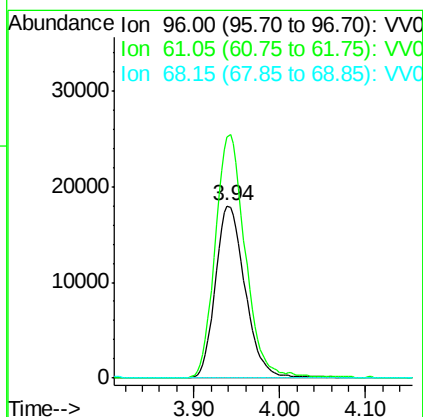
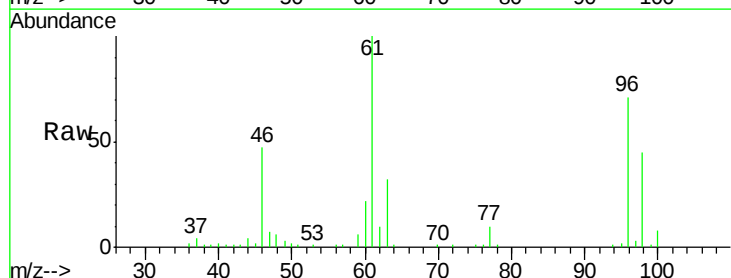
Instrument :
 MSVOA_V
 ClientSampleId :
 BFS85

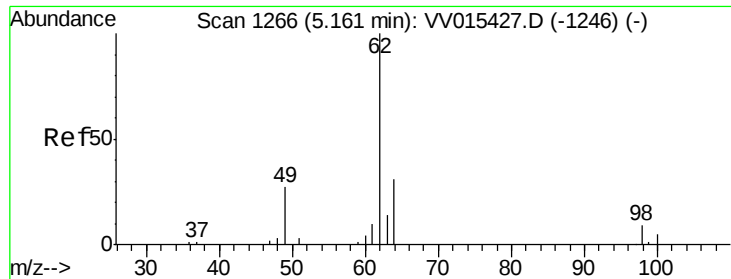
Tot Ion: 63 Resp: 34012
 Ion Ratio Lower Upper
 63 100
 65 31.3 21.3 39.6
 83 13.3 9.4 17.6



#22
 cis-1,2-Dichloroethene
 Concen: 5.006 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. -0.00 min
 Lab File: VV015444.D
 Acq: 10 Apr 2020 01:56

Tgt Ion: 96 Resp: 43278
 Ion Ratio Lower Upper
 96 100
 61 139.9 100.0 185.8
 68 0.0 0.0 0.0

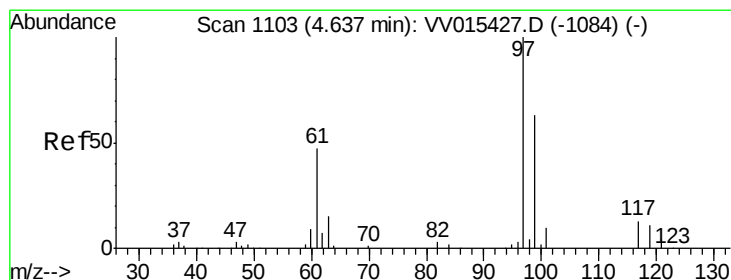
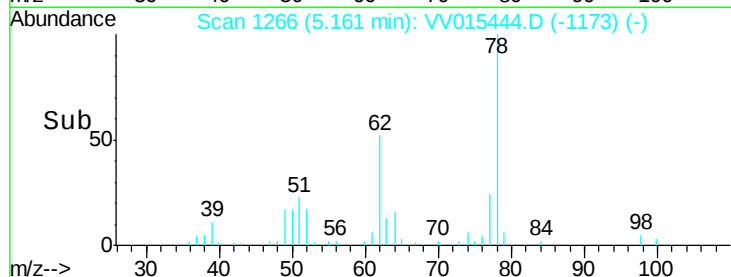
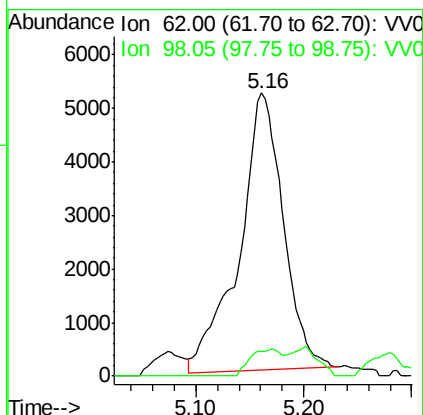
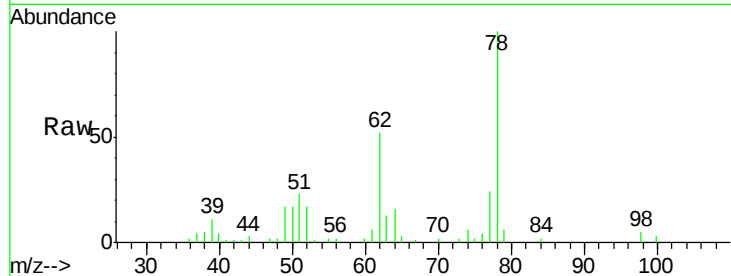




#27
 1,2-Dichloroethane
 Concen: 1.422 ug/L
 RT: 5.16 min Scan# 1266
 Delta R.T. 0.00 min
 Lab File: VV015444.D
 Acq: 10 Apr 2020 01:56

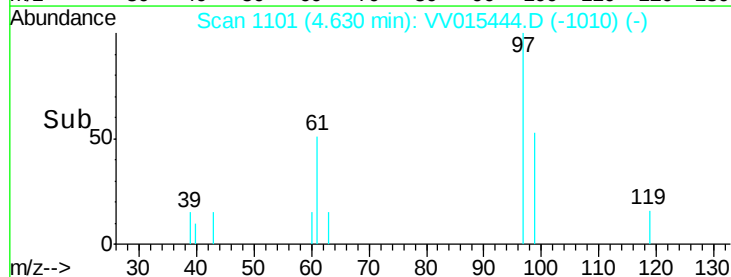
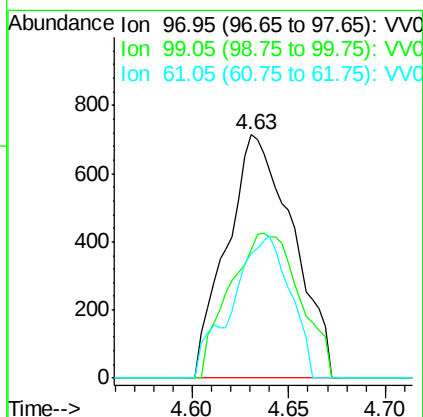
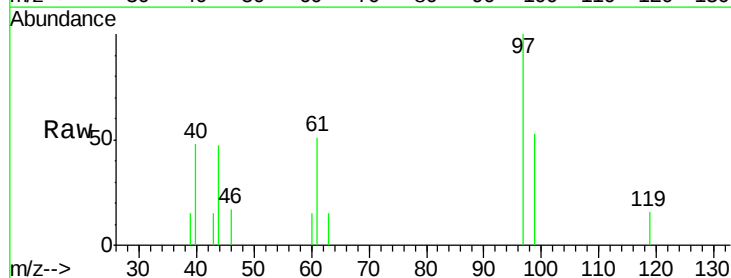
Instrument :
 MSVOA_V
 ClientSampled :
 BFS85

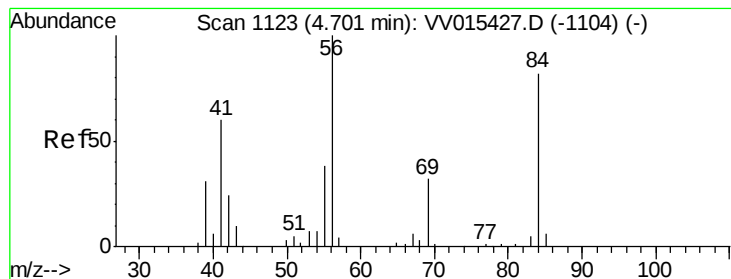
Tot Ion: 62 Resp: 14766
 Ion Ratio Lower Upper
 62 100
 98 8.7 6.6 10.0



#29
 1,1,1-Trichloroethane
 Concen: 0.116 ug/L
 RT: 4.63 min Scan# 1101
 Delta R.T. -0.01 min
 Lab File: VV015444.D
 Acq: 10 Apr 2020 01:56

Tgt Ion: 97 Resp: 1697
 Ion Ratio Lower Upper
 97 100
 99 63.3 51.6 77.4
 61 51.4 39.0 58.6





#30

Cyclohexane

Concen: 1.769 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VV015444.D

Acq: 10 Apr 2020 01:56

Instrument :
MSVOA_V
ClientSampleId :
BFS85

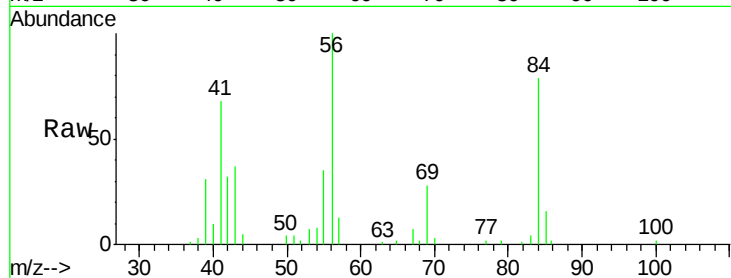
Tot Ion: 56 Resp: 27587

Ion Ratio Lower Upper

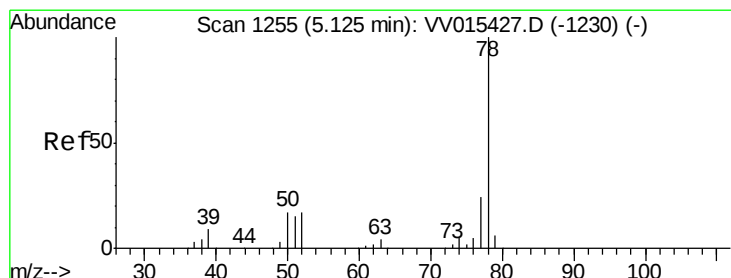
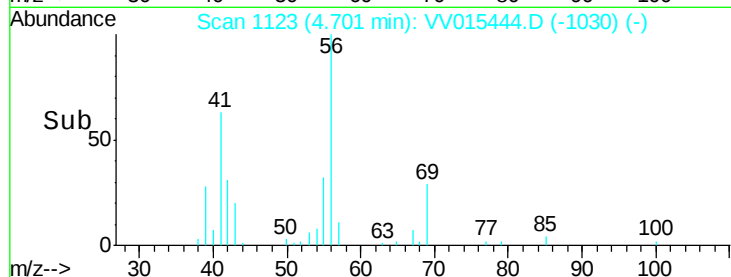
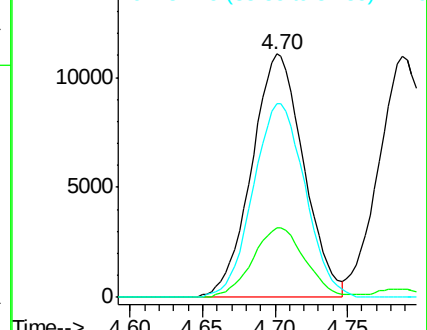
56 100

69 28.7 24.2 36.4

84 79.5 68.4 102.6



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



#33

Benzene

Concen: 8.798 ug/L

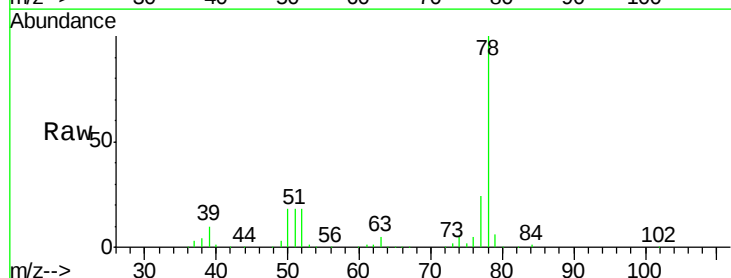
RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

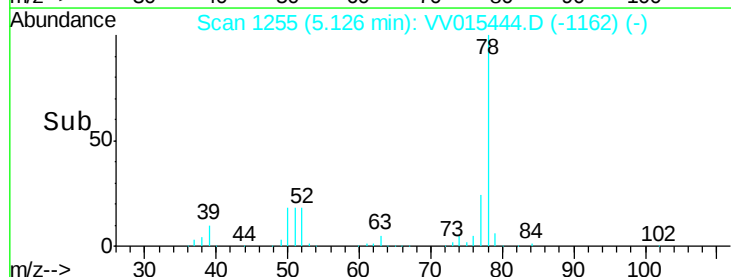
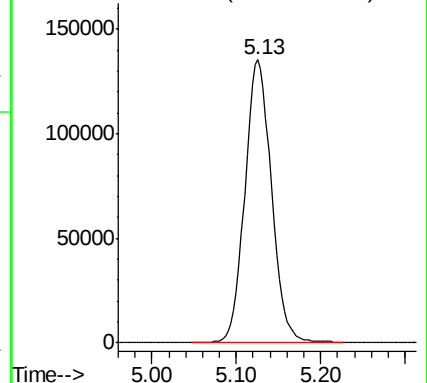
Lab File: VV015444.D

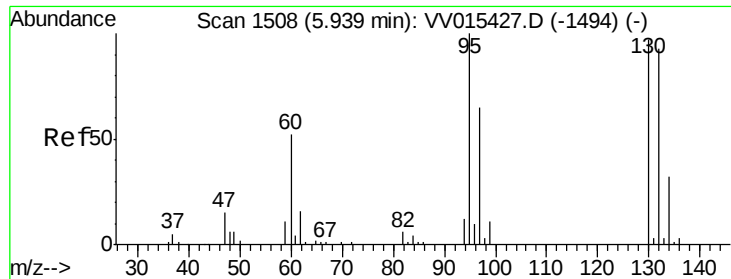
Acq: 10 Apr 2020 01:56

Tgt Ion: 78 Resp: 298045



Abundance Ion 78.10 (77.80 to 78.80): VV0

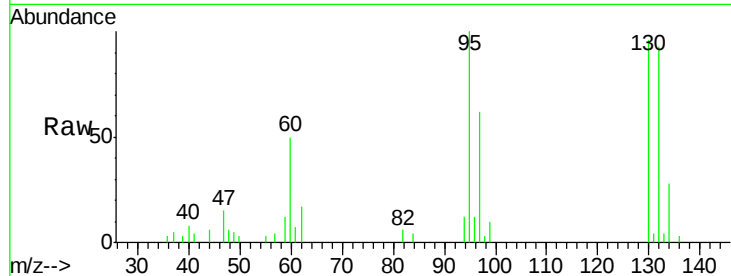




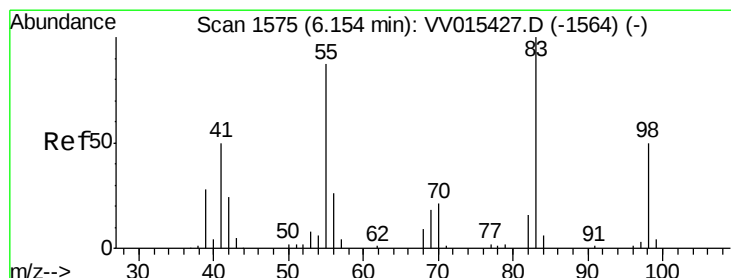
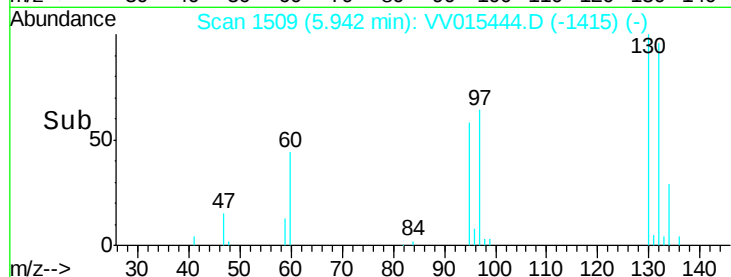
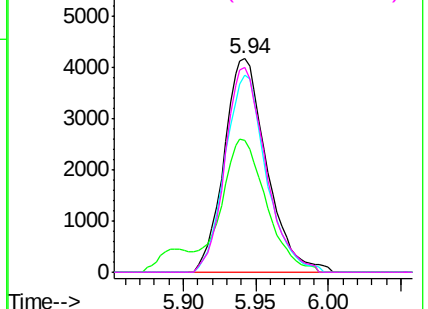
#34
 Trichloroethene
 Concen: 0.931 ug/L
 RT: 5.94 min Scan# 1509
 Delta R.T. 0.00 min
 Lab File: VV015444.D
 Acq: 10 Apr 2020 01:56

Instrument :
 MSVOA_V
 ClientSampleId :
 BFS85

Tot Ion: 95 Resp: 8493
 Ion Ratio Lower Upper
 95 100
 97 61.8 45.4 84.4
 132 92.5 64.8 120.4
 130 95.9 67.4 125.2

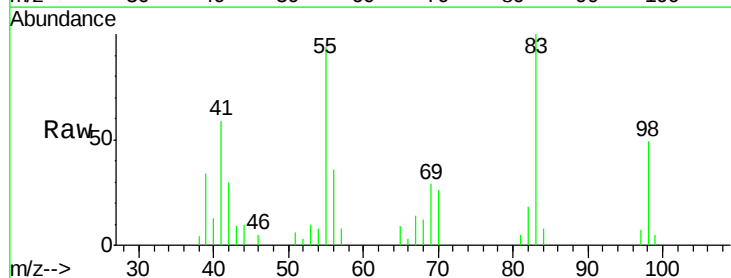


Abundance Ion 95.00 (94.70 to 95.70): VV015444.D (-1415) (-)
 Ion 96.95 (96.65 to 97.65): VV015444.D (-1415) (-)
 Ion 131.95 (131.65 to 132.65): VV015444.D (-1415) (-)
 Ion 129.95 (129.65 to 130.65): VV015444.D (-1415) (-)

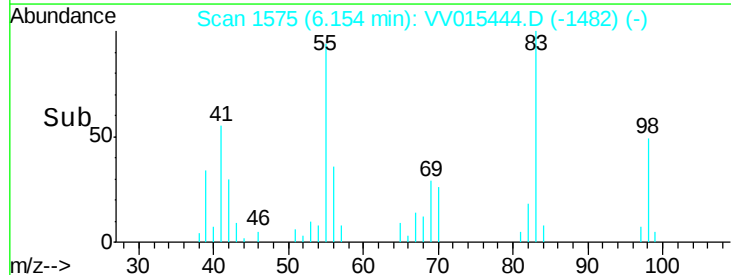
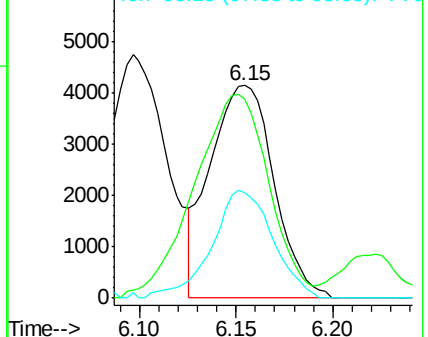


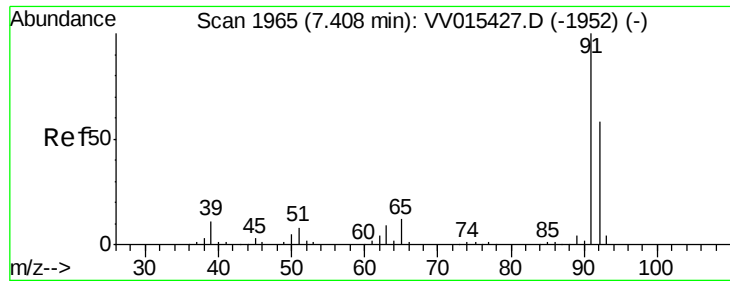
#35
 Methylcyclohexane
 Concen: 0.619 ug/L
 RT: 6.15 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VV015444.D
 Acq: 10 Apr 2020 01:56

Tgt Ion: 83 Resp: 9511
 Ion Ratio Lower Upper
 83 100
 55 112.0 66.6 99.8#
 98 48.3 38.7 58.1



Abundance Ion 83.15 (82.85 to 83.85): VV015444.D (-1482) (-)
 Ion 55.10 (54.80 to 55.80): VV015444.D (-1482) (-)
 Ion 98.15 (97.85 to 98.85): VV015444.D (-1482) (-)





#42

Toluene

Concen: 0.542 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV015444.D

Acq: 10 Apr 2020 01:56

Instrument :

MSVOA_V

ClientSampleId :

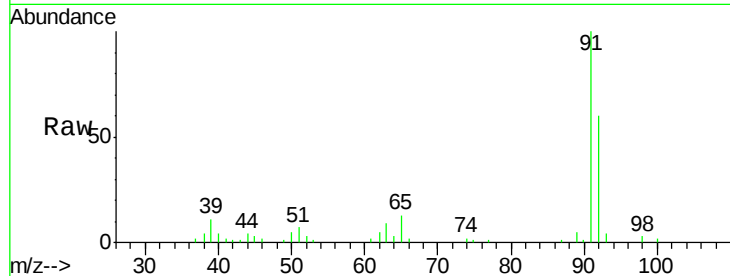
BFS85

Tot Ion: 91 Resp: 19931

Ion Ratio Lower Upper

91 100

92 60.0 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.41

12000

10000

8000

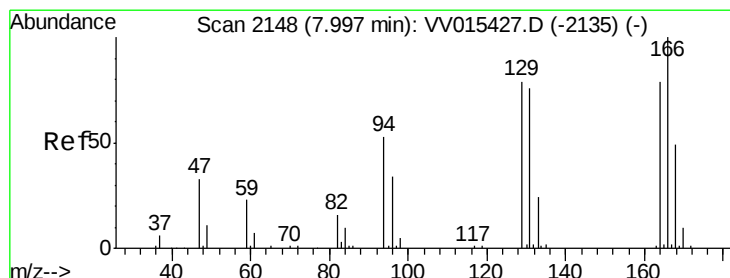
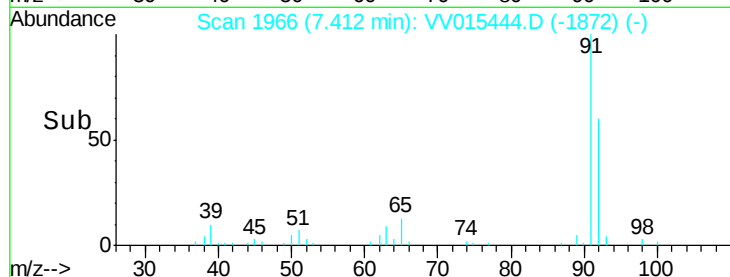
6000

4000

2000

0

Time-->



#47

Tetrachloroethene

Concen: 0.156 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VV015444.D

Acq: 10 Apr 2020 01:56

Tgt Ion: 164 Resp: 1056

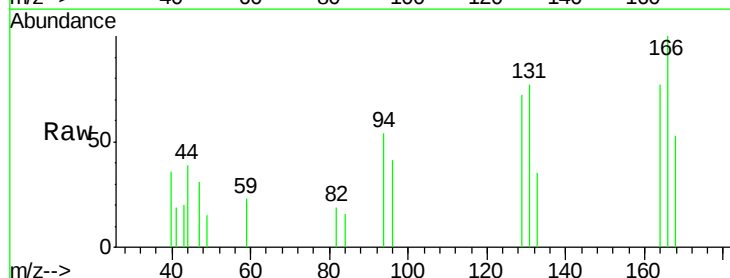
Ion Ratio Lower Upper

164 100

129 92.8 70.6 131.0

131 100.0 68.3 126.8

166 129.4 88.3 163.9



Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

1200

1000

800

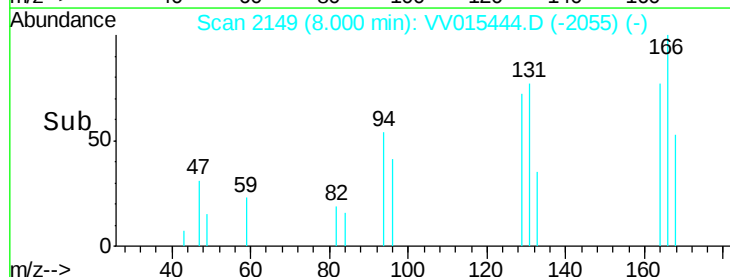
600

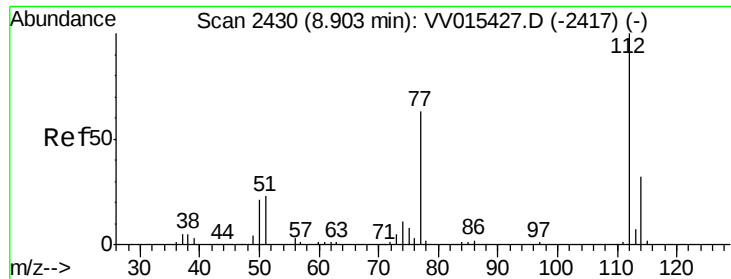
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200

0

Time-->

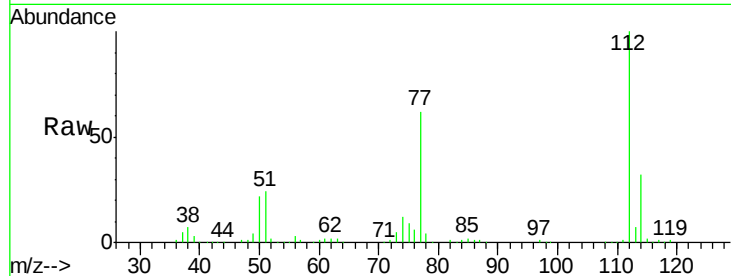




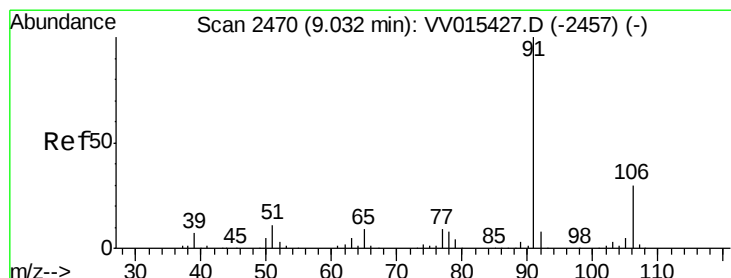
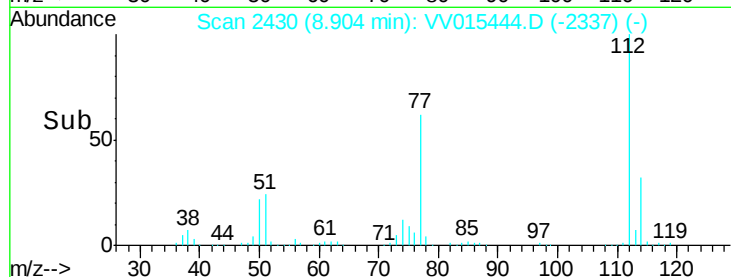
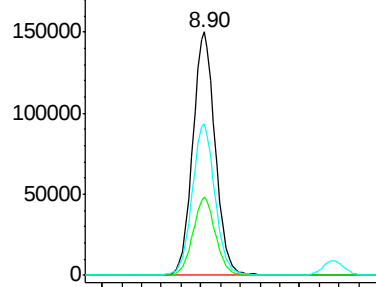
#51
Chlorobenzene
Concen: 10.242 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV015444.D
Acq: 10 Apr 2020 01:56

Instrument :
MSVOA_V
ClientSampleId :
BFS85

Tot Ion:112 Resp: 240131
Ion Ratio Lower Upper
112 100
114 32.4 22.9 42.5
77 62.4 49.8 74.8

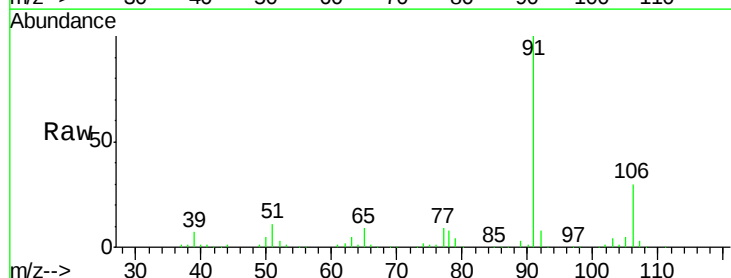


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

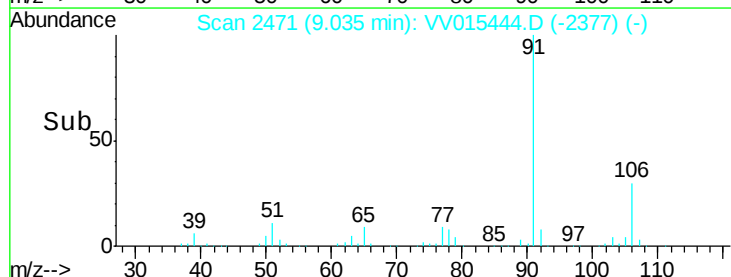
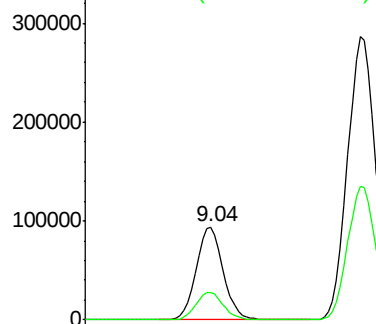


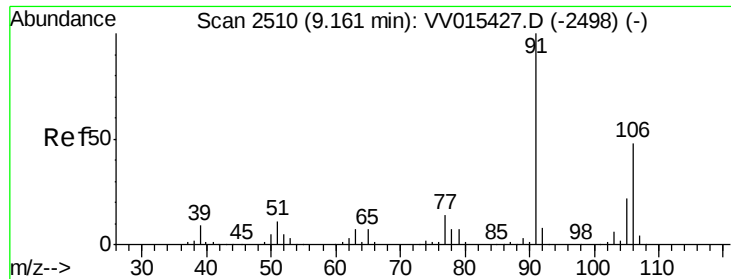
#52
Ethylbenzene
Concen: 3.458 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VV015444.D
Acq: 10 Apr 2020 01:56

Tgt Ion: 91 Resp: 146421
Ion Ratio Lower Upper
91 100
106 30.1 20.8 38.6



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





#53

m,p-xylene

Concen: 13.556 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV015444.D

Acq: 10 Apr 2020 01:56

Instrument :

MSVOA_V

ClientSampleId :

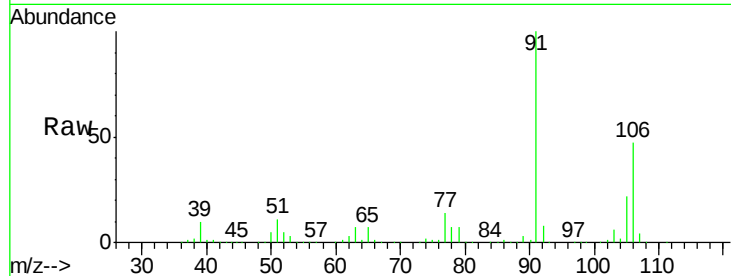
BFS85

Tot Ion:106 Resp: 216760

Ion Ratio Lower Upper

106 100

91 211.9 147.9 274.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0

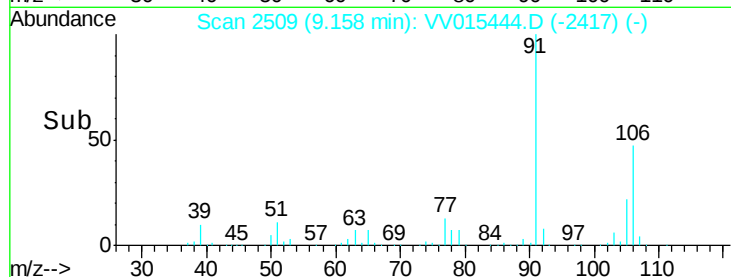
300000

200000

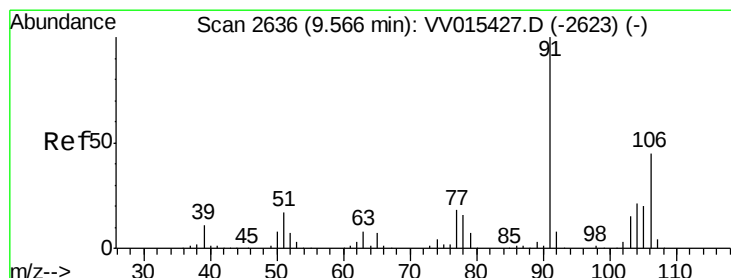
100000

0

9.10 9.20 9.30



Time-->



#54

o-xylene

Concen: 3.630 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV015444.D

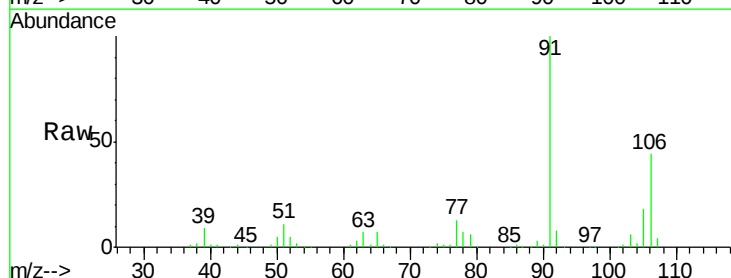
Acq: 10 Apr 2020 01:56

Tgt Ion:106 Resp: 56179

Ion Ratio Lower Upper

106 100

91 228.6 154.5 286.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0

80000

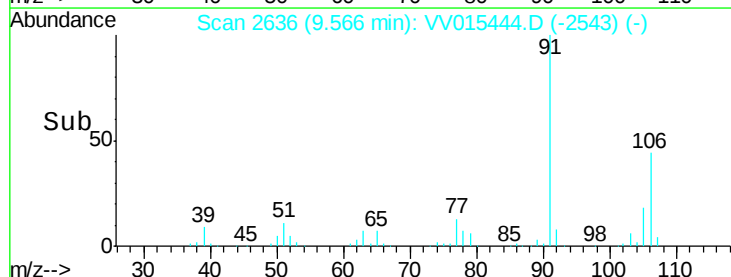
60000

40000

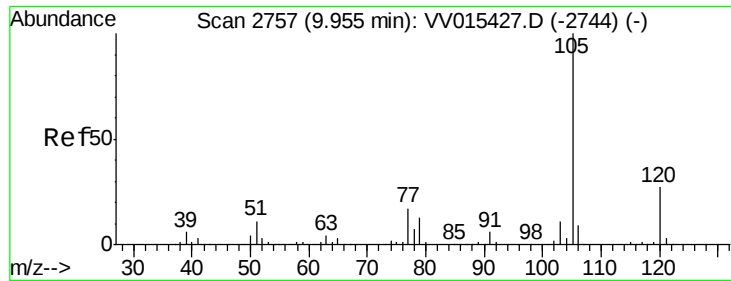
20000

0

9.50 9.55 9.60 9.65



Time-->



#56

Isopropylbenzene

Concen: 1.304 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV015444.D

Acq: 10 Apr 2020 01:56

Instrument :

MSVOA_V

ClientSampleId :

BFS85

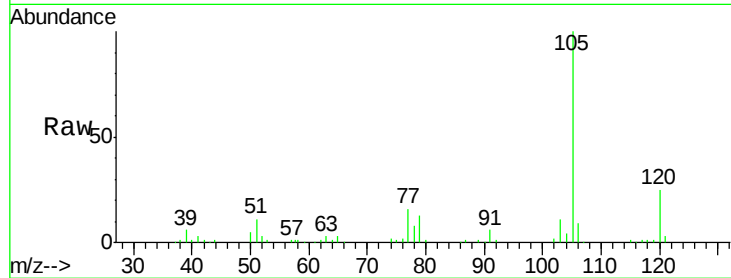
Tot Ion:105 Resp: 55340

Ion Ratio Lower Upper

105 100

120 25.9 20.7 31.1

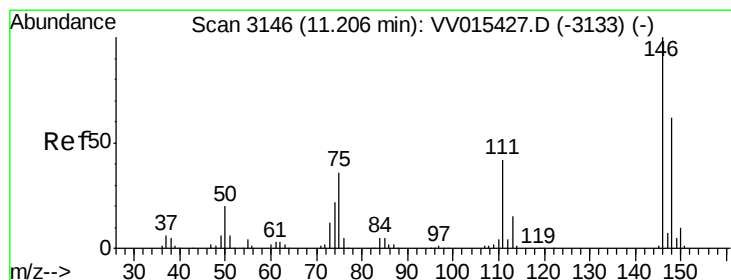
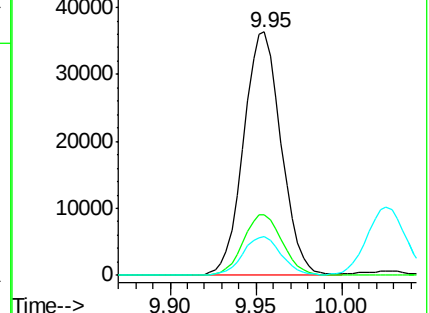
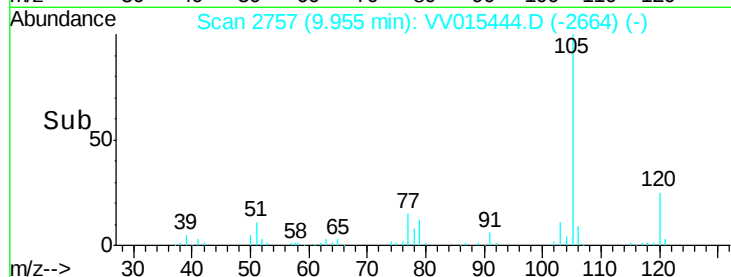
77 16.4 13.5 20.3



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



#62

1,3-Dichlorobenzene

Concen: 0.304 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV015444.D

Acq: 10 Apr 2020 01:56

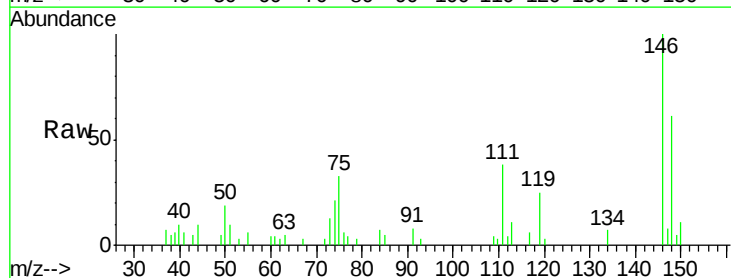
Tgt Ion:146 Resp: 5510

Ion Ratio Lower Upper

146 100

111 38.1 29.3 54.5

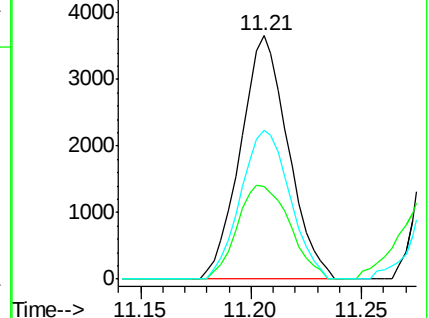
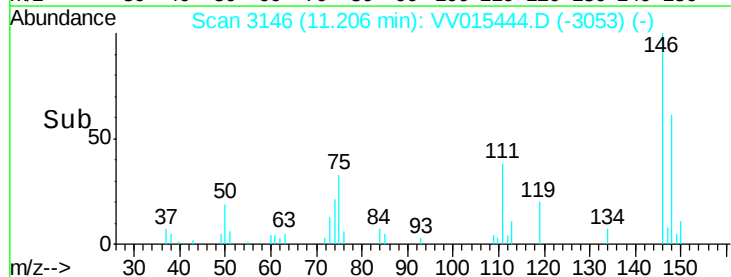
148 61.0 42.4 78.6

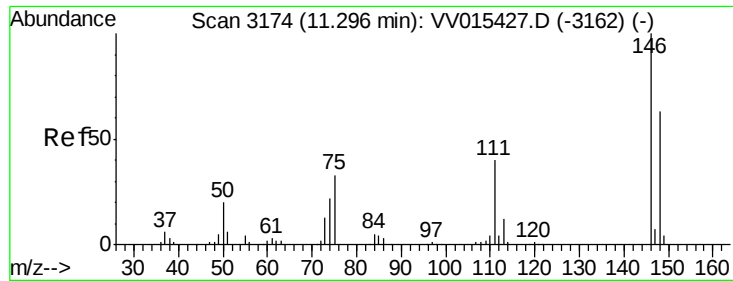


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

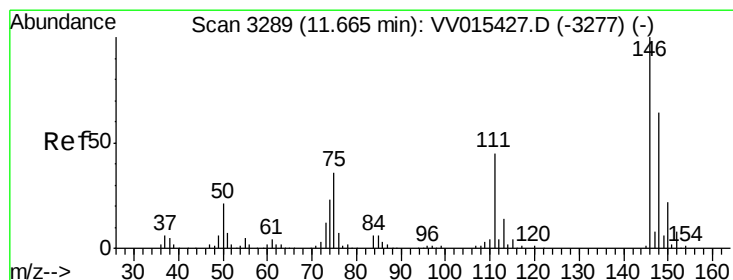
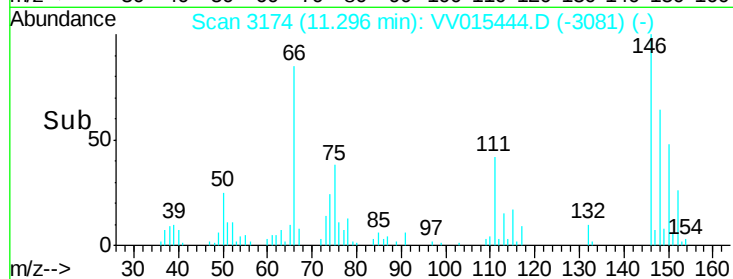
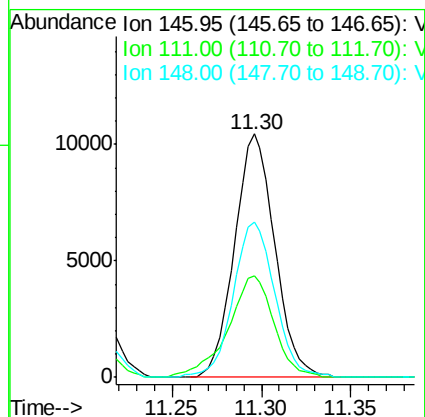
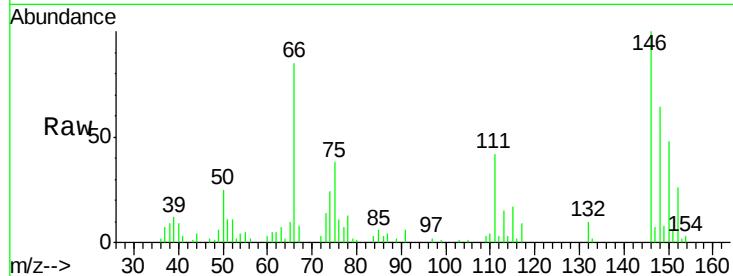




#63
 1,4-Dichlorobenzene
 Concen: 0.889 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. 0.00 min
 Lab File: VV015444.D
 Acq: 10 Apr 2020 01:56

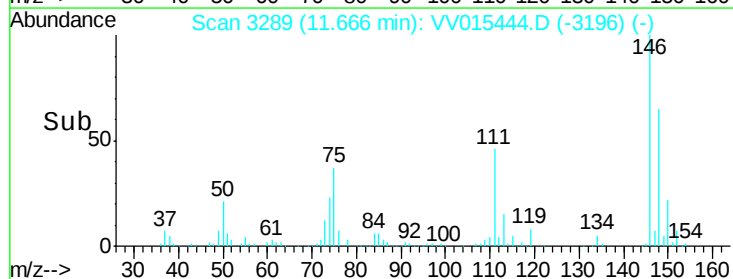
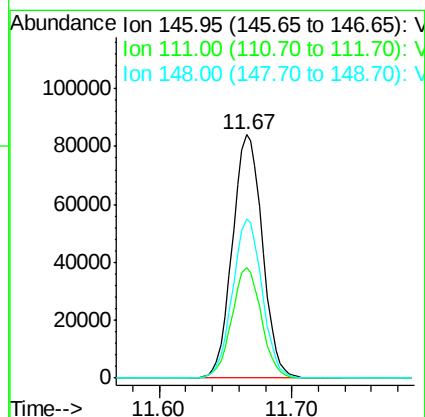
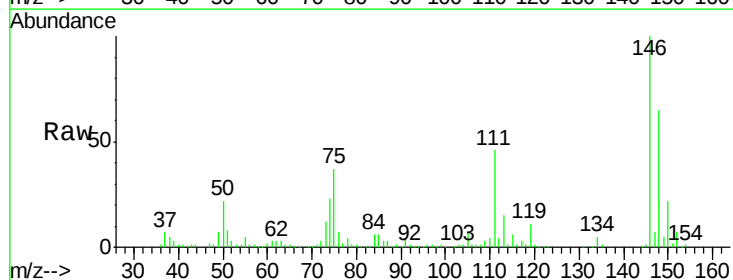
Instrument :
 MSVOA_V
 ClientSampleId :
 BFS85

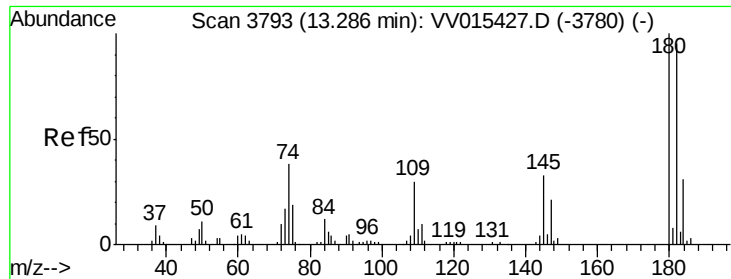
Tot Ion:146 Resp: 16380
 Ion Ratio Lower Upper
 146 100
 111 41.6 29.4 54.6
 148 63.9 44.3 82.3



#65
 1,2-Dichlorobenzene
 Concen: 8.002 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV015444.D
 Acq: 10 Apr 2020 01:56

Tgt Ion:146 Resp: 132058
 Ion Ratio Lower Upper
 146 100
 111 45.6 35.8 53.6
 148 65.1 50.2 75.4

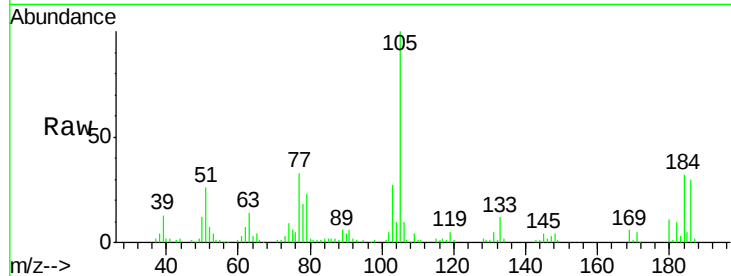




#68
 1,2,4-trichlorobenzene
 Concen: 0.307 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV015444.D
 Acq: 10 Apr 2020 01:56

Instrument :
 MSVOA_V
 ClientSampleId :
 BFS85

Tot Ion:180 Resp: 3617
 Ion Ratio Lower Upper
 180 100
 182 96.9 76.6 115.0
 145 38.2 25.9 38.9



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V

