

Data File : VV009085.D
Acq On : 20 Dec 2018 15:35
Operator : SY/MD
Sample : J6441-07
Misc : 4.19 G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BE7Z6

Quant Time: Dec 21 00:29:24 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 21 00:25:26 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	234893	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	143874	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	35204	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	55593	22.87	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	91.48%
7) Chloroethane-d5	1.58	69	59530	33.15	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	132.60%
10) 1,1-Dichloroethene-d2	2.13	63	111013	18.27	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	73.08%
20) 2-Butanone-d5	3.93	46	39361	44.48	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	88.96%
24) Chloroform-d	4.40	84	141169	25.00	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	100.00%
26) 1,2-Dichloroethane-d4	5.08	65	78882	25.60	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	102.40%
29) Benzene-d6	5.10	84	281857	35.08	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	140.32%#
33) 1,2-Dichloropropane-d6	6.12	67	83890	37.29	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	149.16%#
37) Toluene-d8	7.36	98	209156	28.13	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	112.52%
38) trans-1,3-Dichloropropene-	7.66	79	28268	28.60	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	114.40%
39) 2-Hexanone-d5	8.14	63	21816	52.94	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	105.88%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	47915	25.39	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	101.56%
61) 1,2-Dichlorobenzene-d4	11.68	152	31569	23.89	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	95.56%

Target Compounds

					Qvalue
5) Vinyl chloride	1.32	62	1325	0.449 ug/L #	1
13) Acetone	2.20	43	42822	32.842 ug/L	97
14) Carbon disulfide	2.32	76	19004	1.955 ug/L	100
16) Methylene chloride	2.53	84	7027	1.777 ug/L	85
21) 2-Butanone	4.02	43	15902	13.012 ug/L	93
25) Chloroform	4.43	83	3224	0.566 ug/L #	37
30) Cyclohexane	4.72	56	2460	0.679 ug/L #	81
34) Benzene	5.14	78	71928	8.344 ug/L	100
35) Trichloroethene	5.96	95	1361	0.524 ug/L	89
36) Methylcyclohexane	6.18	83	8518	2.055 ug/L	89
42) cis-1,3-Dichloropropene	7.03	75	2982	0.985 ug/L #	54
44) Toluene	7.43	91	21713	2.402 ug/L	97
46) 1,1,2-Trichloroethane	7.83	97	1533	0.889 ug/L #	23
49) 2-Hexanone	8.18	43	3102	2.681 ug/L #	77
52) Chlorobenzene	8.93	112	4683	0.796 ug/L	97
53) Ethylbenzene	9.06	91	12180	1.242 ug/L	95
54) m,p-Xylene	9.18	106	10495	2.826 ug/L	97

Data File : VV009085.D
Acq On : 20 Dec 2018 15:35
Operator : SY/MD
Sample : J6441-07
Misc : 4.19 G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BE7Z6

Quant Time: Dec 21 00:29:24 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 21 00:25:26 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) o-xylene	9.59	106	8556	2.480	ug/L	88
57) Isopropylbenzene	9.98	105	20726	2.210	ug/L #	96
58) 1,1,2,2-Tetrachloroethane	10.29	83	10503	5.636	ug/L #	38
59) 1,2,3-Trichloropropane	11.29	75	3728	2.312	ug/L	95
64) 1,4-Dichlorobenzene	11.32	146	951	0.407	ug/L #	1
65) 1,2-Dichlorobenzene	11.69	146	878	0.420	ug/L #	1
68) 1,2,4-trichlorobenzene	13.31	180	543	0.473	ug/L #	32
69) Naphthalene	13.56	128	7827	3.958	ug/L #	88
70) 1,2,3-Trichlorobenzene	13.81	180	1090	1.028	ug/L #	1

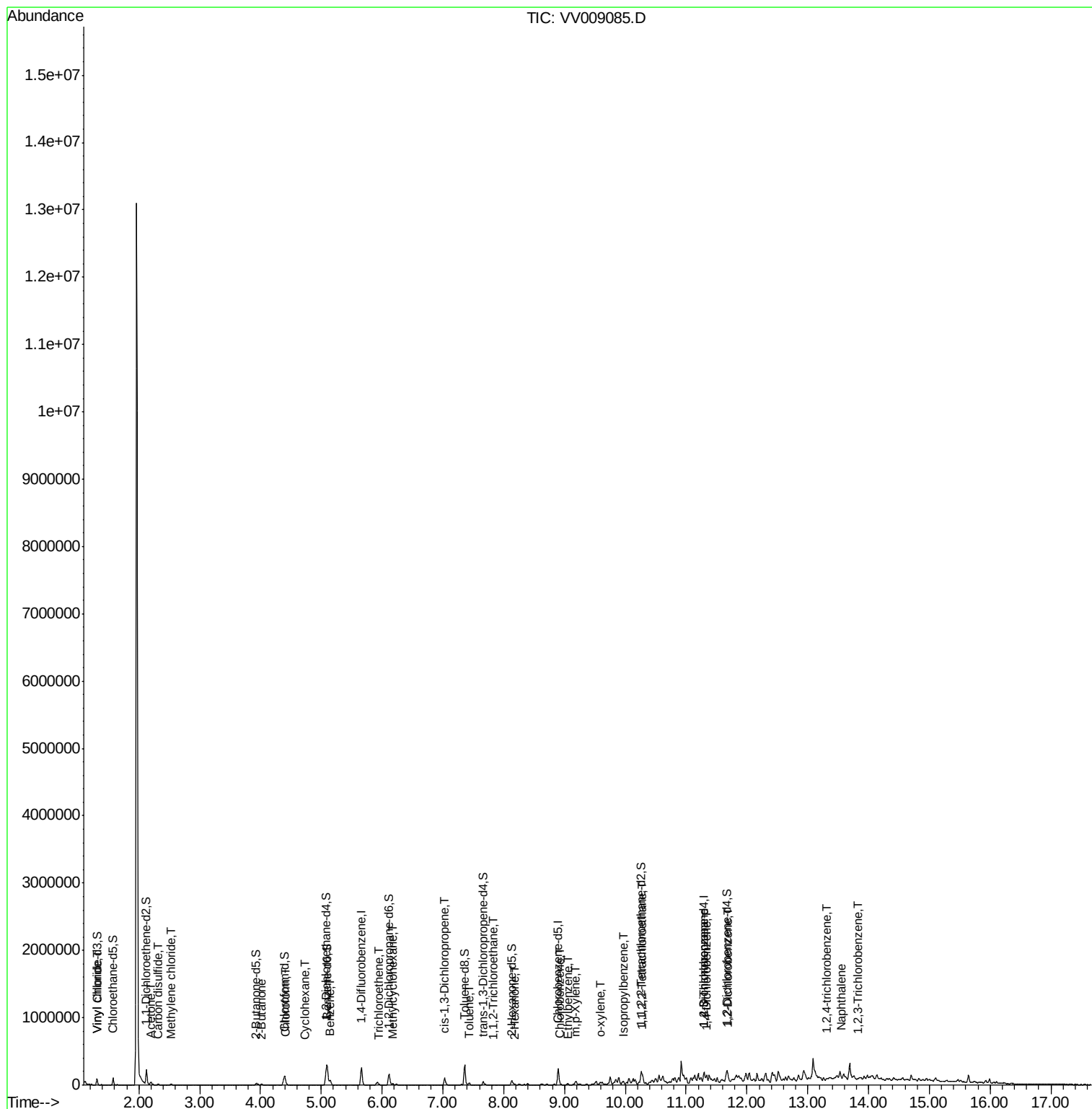
(#) = qualifier out of range (m) = manual integration (+) = signals summed

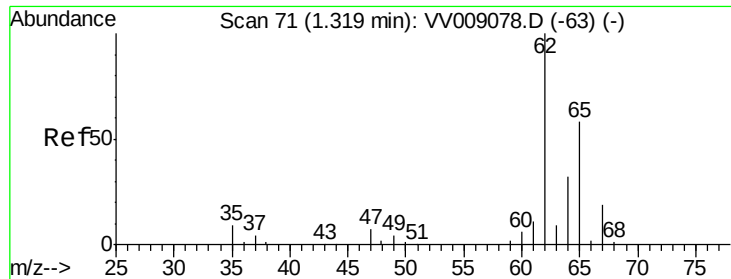
Data File : VV009085.D

```
Acq On      : 20 Dec 2018   15:35
Operator    : SY/MD
Sample      : J6441-07
Misc        : 4.19  G/10ML/MSVOA_V/SOIL
ALS Vial    : 1      Sample Multiplier: 1
```

Instrument :
MSVOA_V
ClientSampleId :
BE7Z6

Quant Time: Dec 21 00:29:24 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 21 00:25:26 2018
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.449 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VV009085.D

Acq: 20 Dec 2018 15:35

Instrument :

MSVOA_V

ClientSampleId :

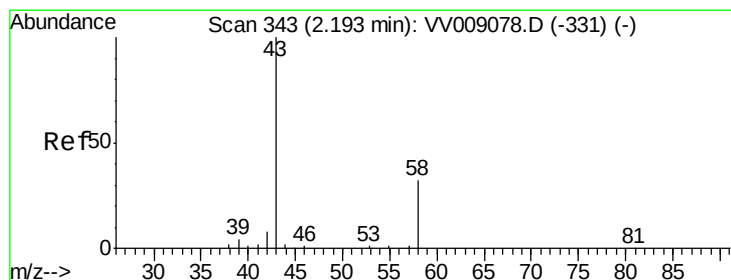
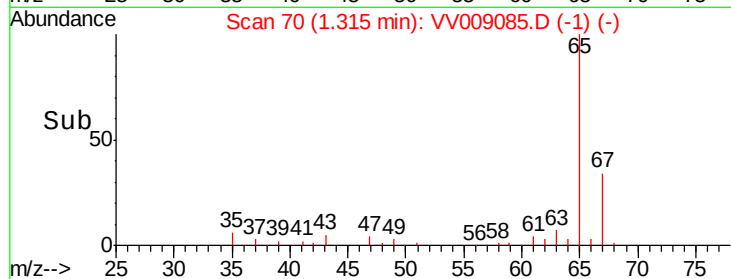
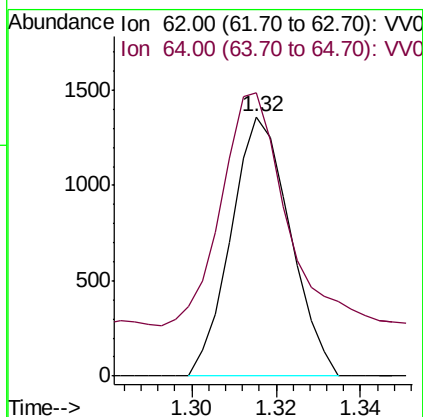
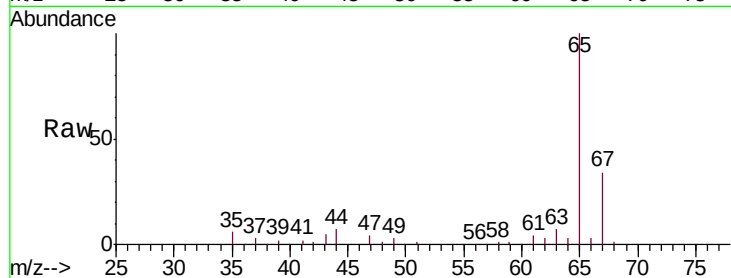
BE7Z6

Tgt Ion: 62 Resp: 1325

Ion Ratio Lower Upper

62 100

64 109.3 23.3 43.3#



#13

Acetone

Concen: 32.842 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.00 min

Lab File: VV009085.D

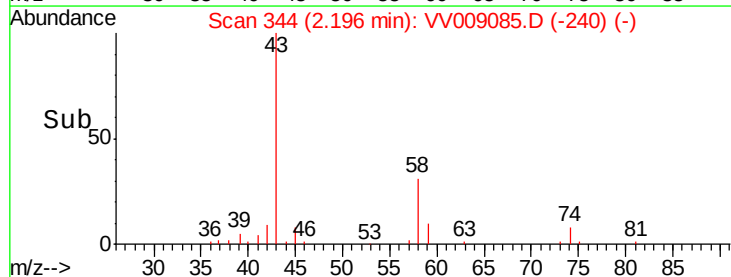
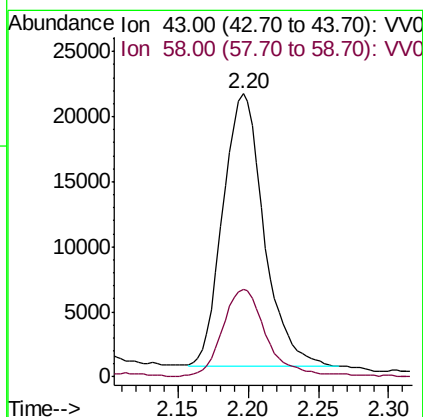
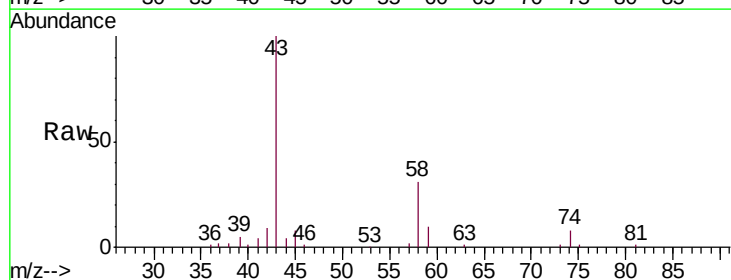
Acq: 20 Dec 2018 15:35

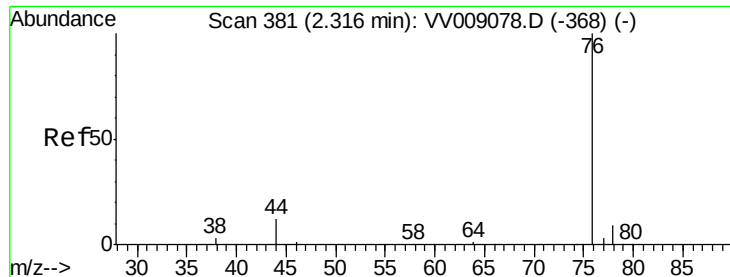
Tgt Ion: 43 Resp: 42822

Ion Ratio Lower Upper

43 100

58 34.1 0.0 65.4





#14

Carbon disulfide

Concen: 1.955 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV009085.D

Acq: 20 Dec 2018 15:35

Instrument :

MSVOA_V

ClientSampled :

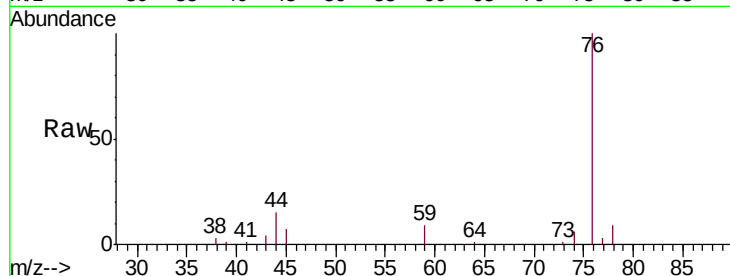
BE7Z6

Tgt Ion: 76 Resp: 19004

Ion Ratio Lower Upper

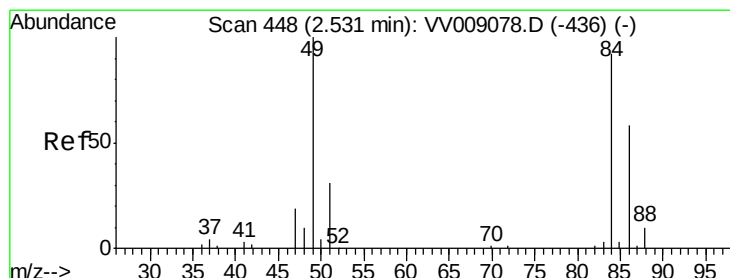
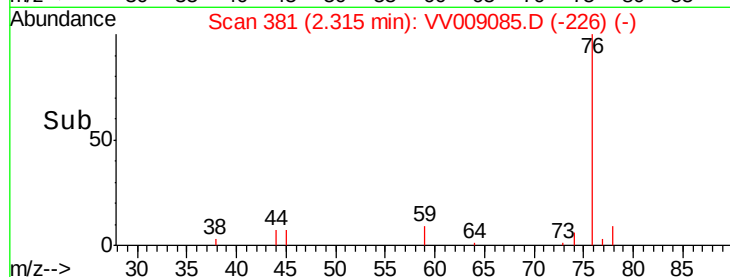
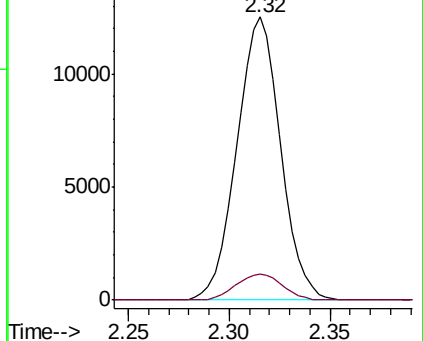
76 100

78 9.0 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0



#16

Methylene chloride

Concen: 1.777 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV009085.D

Acq: 20 Dec 2018 15:35

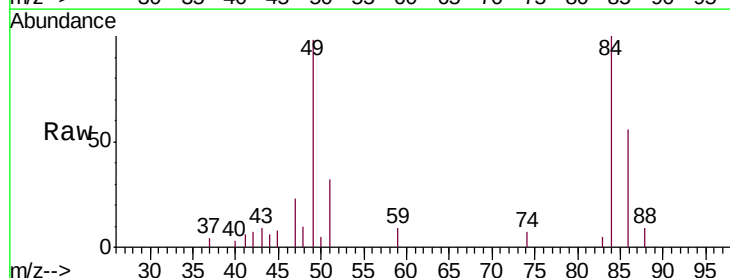
Tgt Ion: 84 Resp: 7027

Ion Ratio Lower Upper

84 100

49 97.7 80.5 149.5

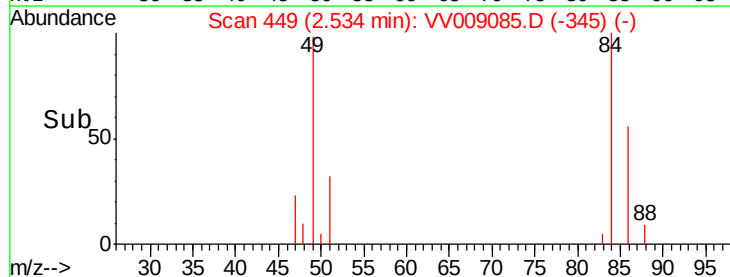
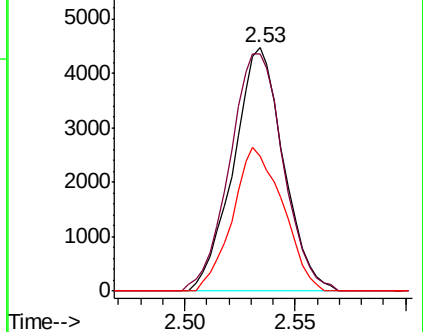
86 55.5 45.5 84.5

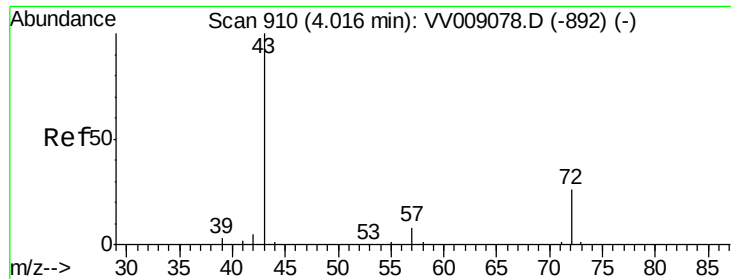


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0





#21

2-Butanone

Concen: 13.012 ug/L

RT: 4.02 min Scan# 910

Delta R.T. -0.00 min

Lab File: VV009085.D

Acq: 20 Dec 2018 15:35

Instrument :

MSVOA_V

ClientSampleId :

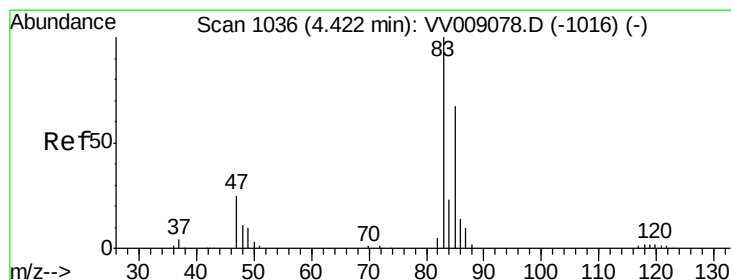
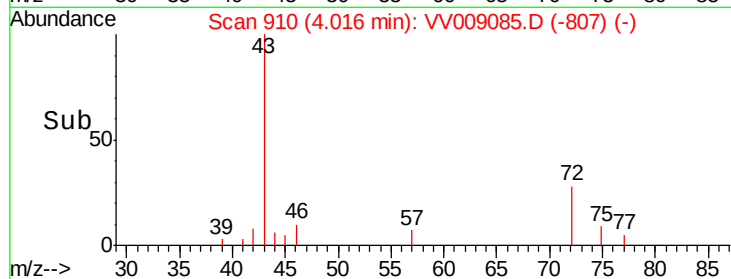
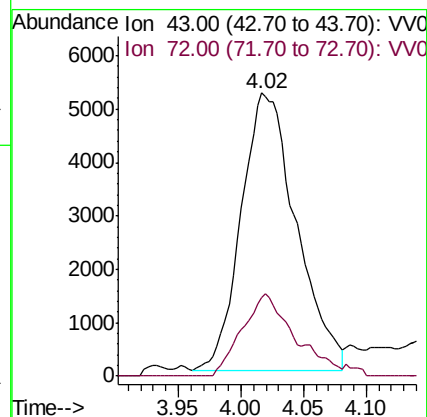
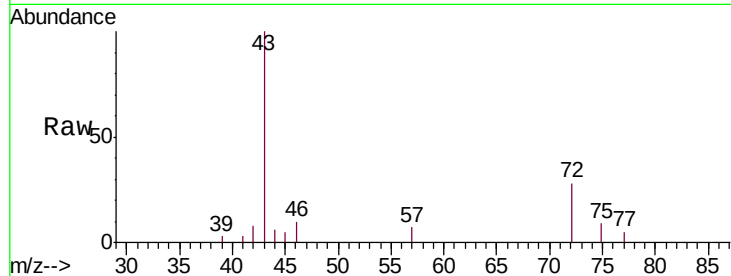
BE7Z6

Tgt Ion: 43 Resp: 15902

Ion Ratio Lower Upper

43 100

72 24.0 13.7 41.1



#25

Chloroform

Concen: 0.566 ug/L

RT: 4.43 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VV009085.D

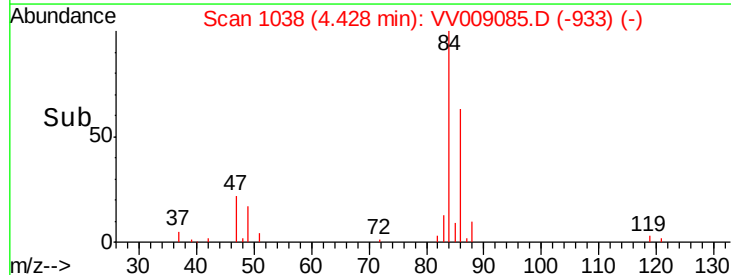
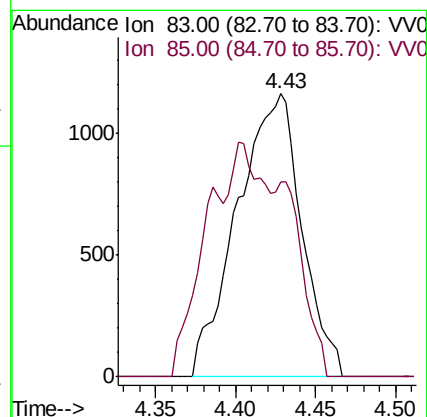
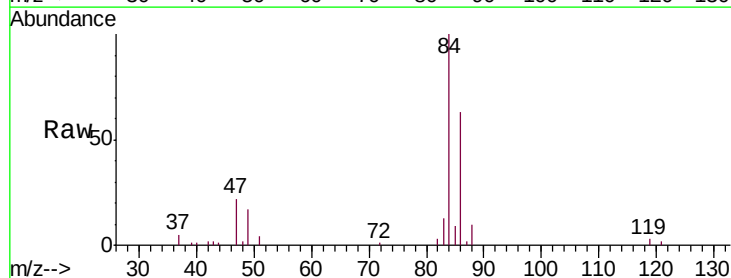
Acq: 20 Dec 2018 15:35

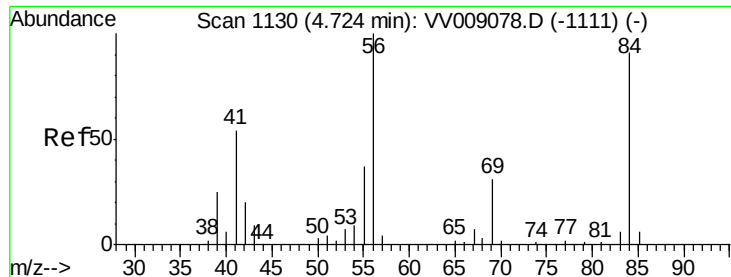
Tgt Ion: 83 Resp: 3224

Ion Ratio Lower Upper

83 100

85 15.4 45.6 84.8#

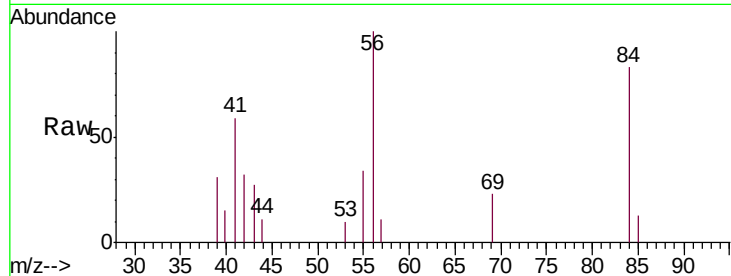




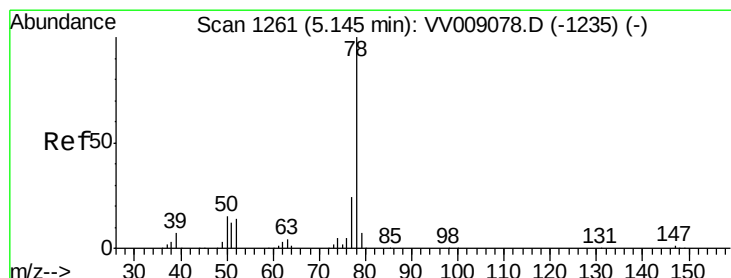
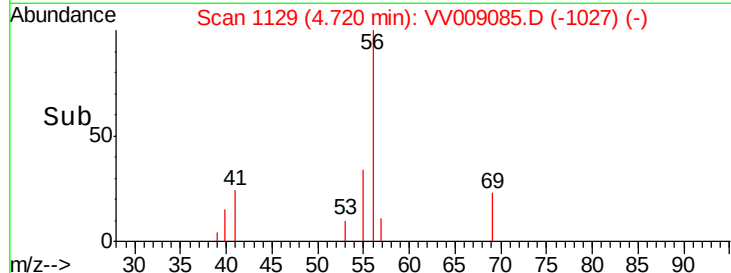
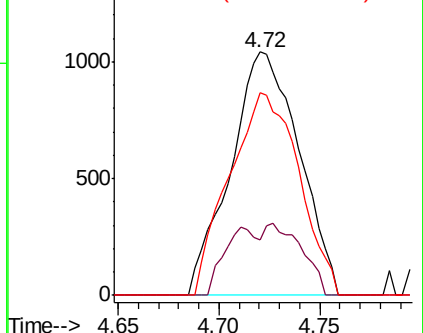
#30
Cyclohexane
Concen: 0.679 ug/L
RT: 4.72 min Scan# 1129
Delta R.T. -0.00 min
Lab File: VV009085.D
Acq: 20 Dec 2018 15:35

Instrument :
MSVOA_V
ClientSampleId :
BE7Z6

Tgt Ion: 56 Resp: 2460
Ion Ratio Lower Upper
56 100
69 2.5 25.8 38.8#
84 84.4 73.0 109.6

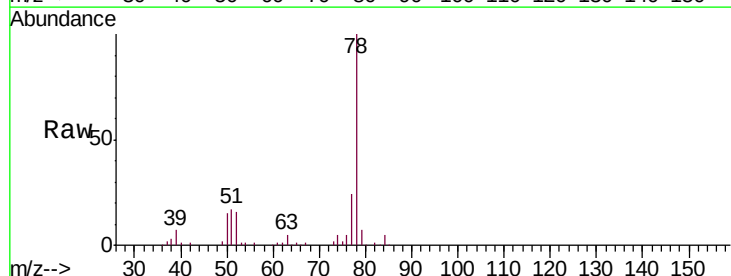


Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0

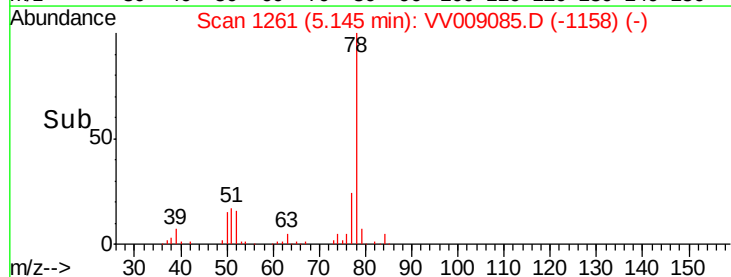
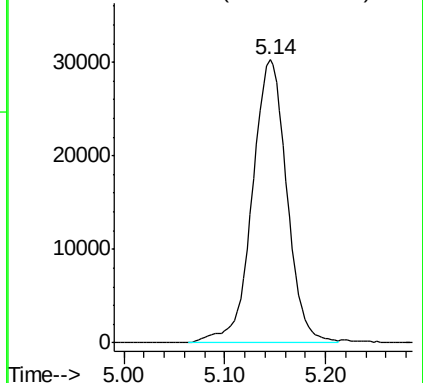


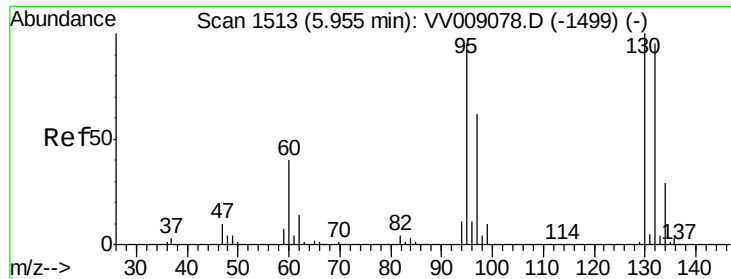
#34
Benzene
Concen: 8.344 ug/L
RT: 5.14 min Scan# 1261
Delta R.T. -0.00 min
Lab File: VV009085.D
Acq: 20 Dec 2018 15:35

Tgt Ion: 78 Resp: 71928



Abundance Ion 78.00 (77.70 to 78.70): VV0

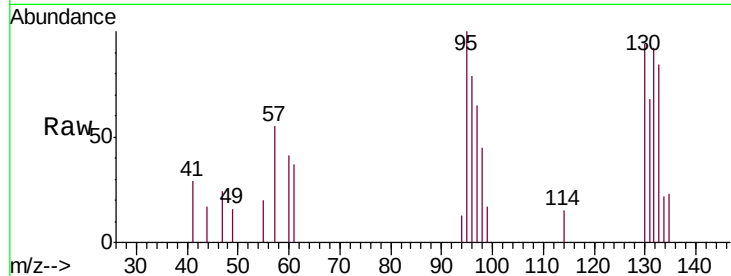




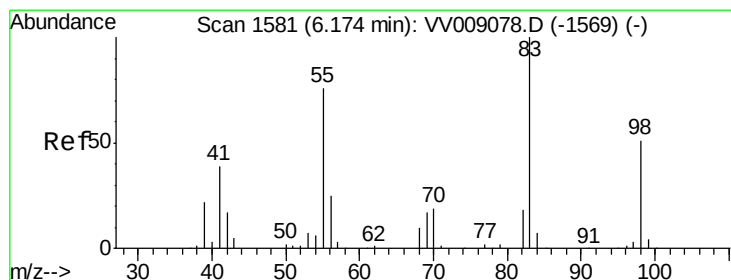
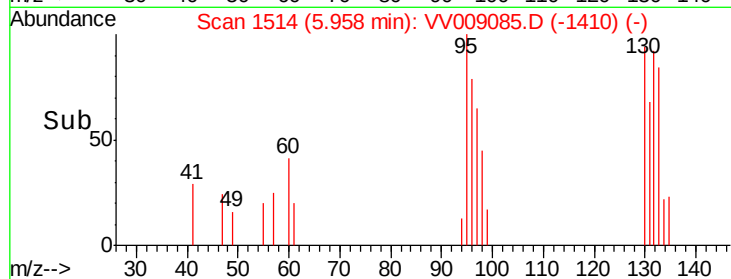
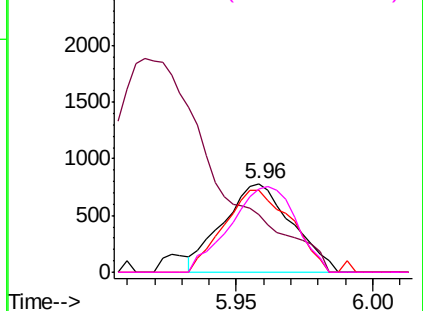
#35
 Trichloroethene
 Concen: 0.524 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV009085.D
 Acq: 20 Dec 2018 15:35

Instrument :
 MSVOA_V
 ClientSampleId :
 BE7Z6

Tgt Ion: 95 Resp: 1361
 Ion Ratio Lower Upper
 95 100
 97 52.3 45.3 84.1
 132 91.8 70.0 130.0
 130 93.5 73.4 136.4

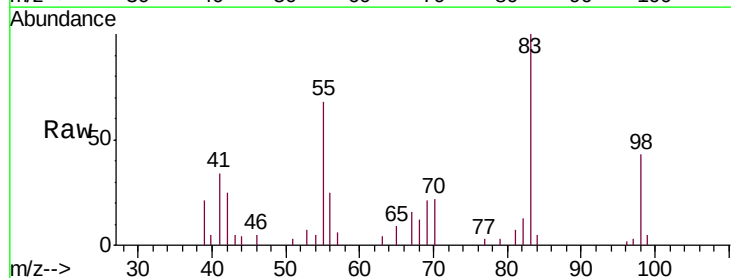


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

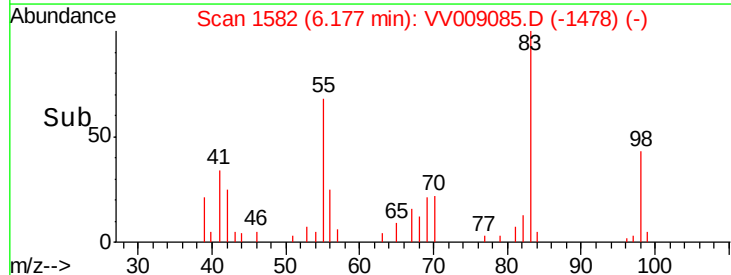
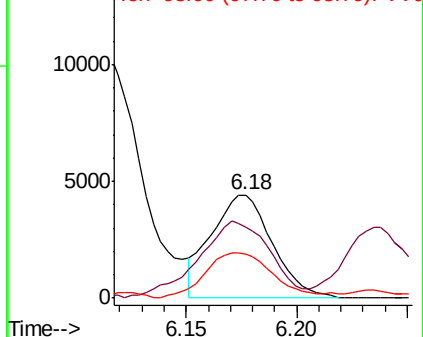


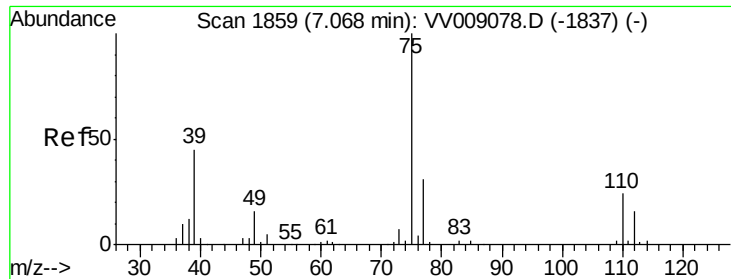
#36
 Methylcyclohexane
 Concen: 2.055 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV009085.D
 Acq: 20 Dec 2018 15:35

Tgt Ion: 83 Resp: 8518
 Ion Ratio Lower Upper
 83 100
 55 86.9 58.2 87.2
 98 47.9 37.8 56.8



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



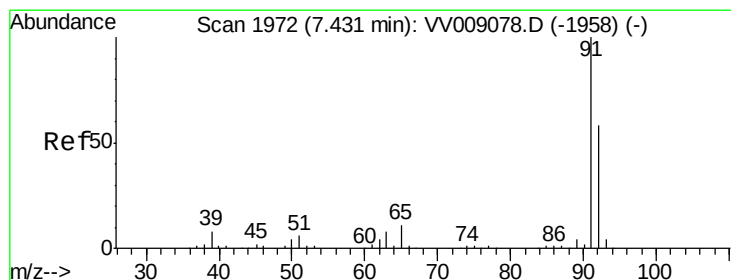
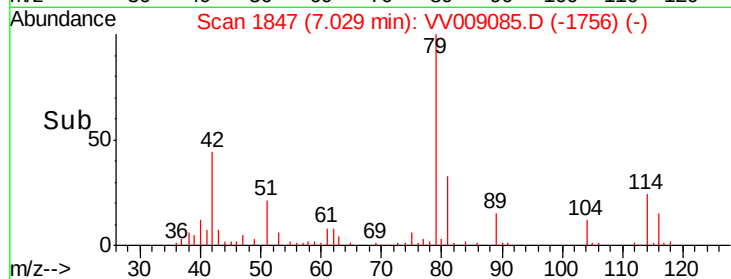
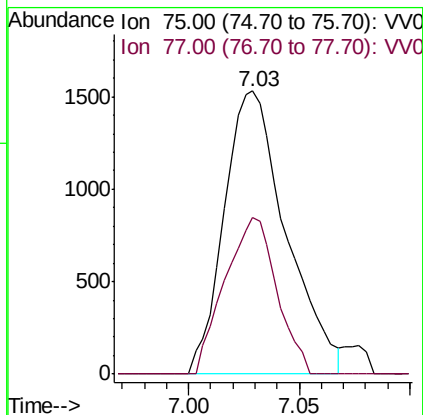
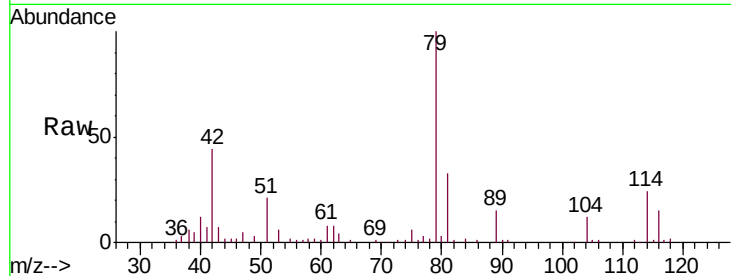


#42

cis-1,3-Dichloropropene
Concen: 0.985 ug/L
RT: 7.03 min Scan# 1847
Delta R.T. -0.04 min
Lab File: VV009085.D
Acq: 20 Dec 2018 15:35

Instrument :
MSVOA_V
ClientSampleId :
BE7Z6

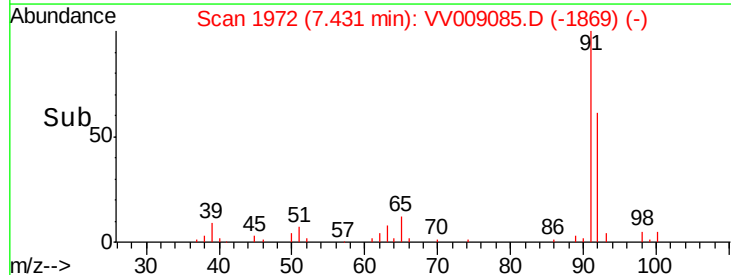
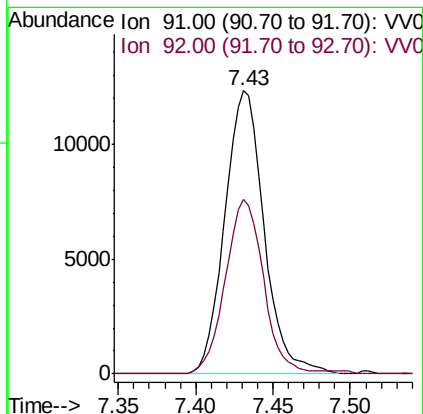
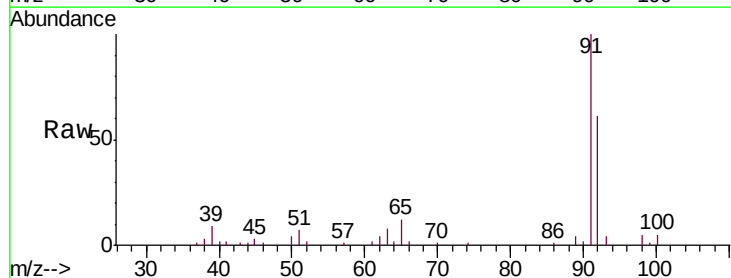
Tgt Ion: 75 Resp: 2982
Ion Ratio Lower Upper
75 100
77 55.5 21.3 39.6#

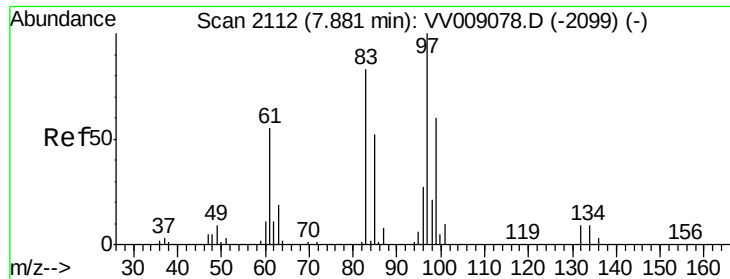


#44

Toluene
Concen: 2.402 ug/L
RT: 7.43 min Scan# 1972
Delta R.T. -0.00 min
Lab File: VV009085.D
Acq: 20 Dec 2018 15:35

Tgt Ion: 91 Resp: 21713
Ion Ratio Lower Upper
91 100
92 61.5 41.7 77.5

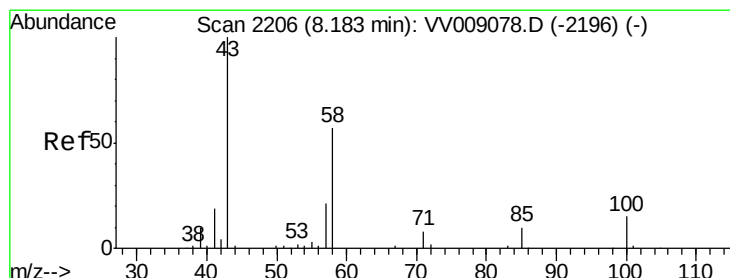
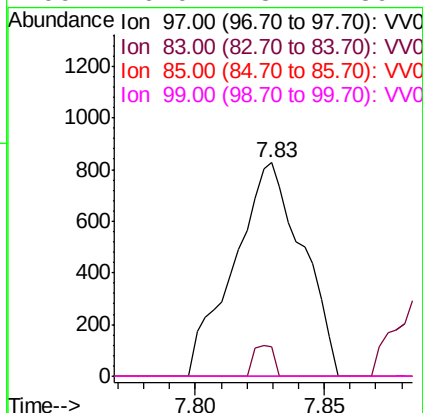
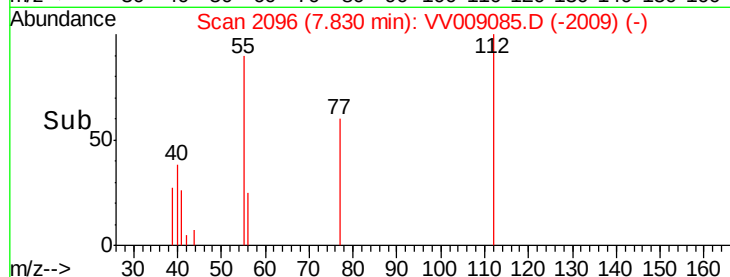
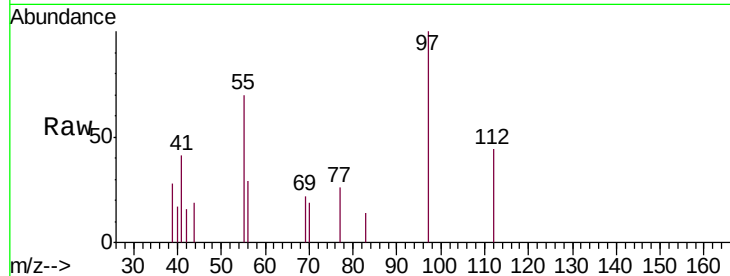




#46
 1,1,2-Trichloroethane
 Concen: 0.889 ug/L
 RT: 7.83 min Scan# 2096
 Delta R.T. -0.05 min
 Lab File: VV009085.D
 Acq: 20 Dec 2018 15:35

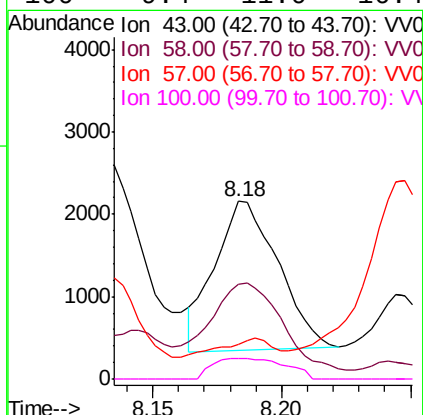
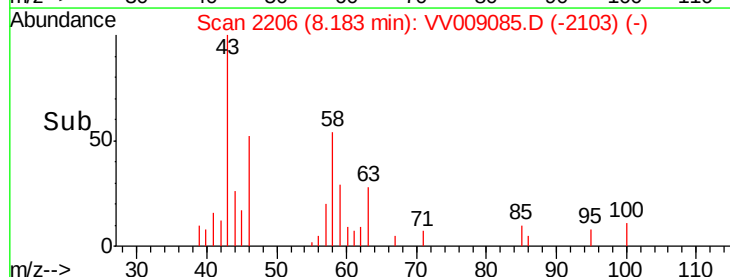
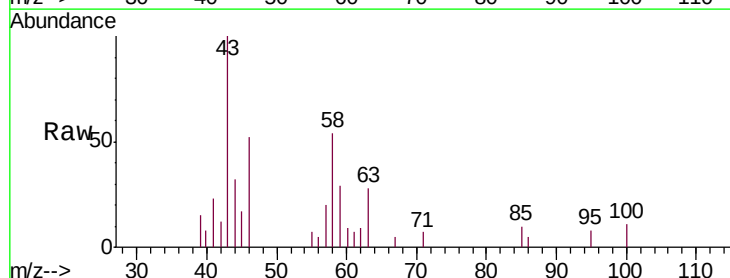
Instrument :
 MSVOA_V
 ClientSampleId :
 BE7Z6

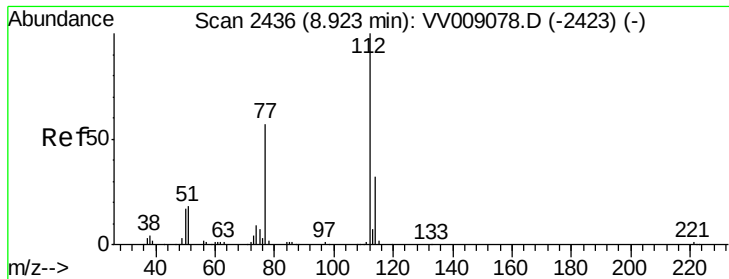
Tgt Ion: 97 Resp: 1533
 Ion Ratio Lower Upper
 97 100
 83 13.5 56.6 105.2#
 85 0.0 36.6 68.0#
 99 0.0 43.2 80.2#



#49
 2-Hexanone
 Concen: 2.681 ug/L
 RT: 8.18 min Scan# 2206
 Delta R.T. -0.00 min
 Lab File: VV009085.D
 Acq: 20 Dec 2018 15:35

Tgt Ion: 43 Resp: 3102
 Ion Ratio Lower Upper
 43 100
 58 77.8 43.9 65.9#
 57 16.7 15.7 23.5
 100 9.4 11.0 16.4#





#52

Chlorobenzene

Concen: 0.796 ug/L

RT: 8.93 min Scan# 2438

Delta R.T. 0.01 min

Lab File: VV009085.D

Acq: 20 Dec 2018 15:35

Instrument :

MSVOA_V

ClientSampleId :

BE7Z6

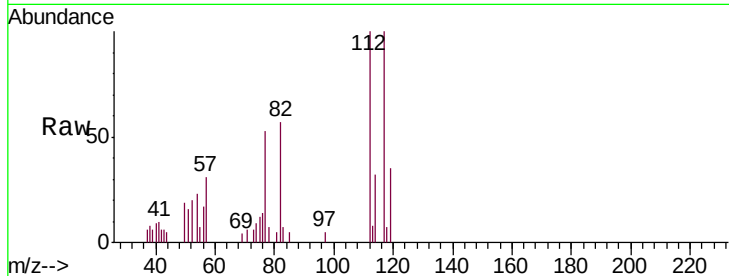
Tgt Ion: 112 Resp: 4683

Ion Ratio Lower Upper

112 100

77 53.1 44.6 66.8

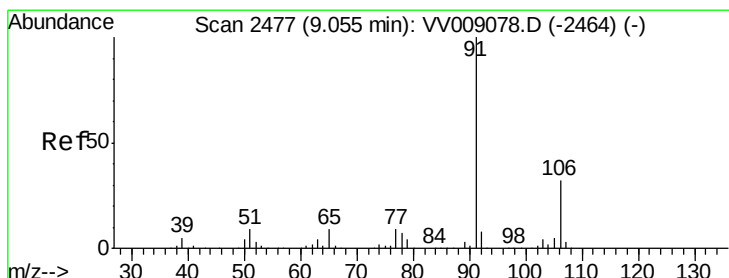
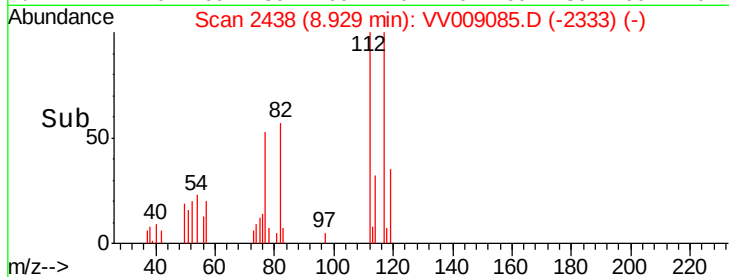
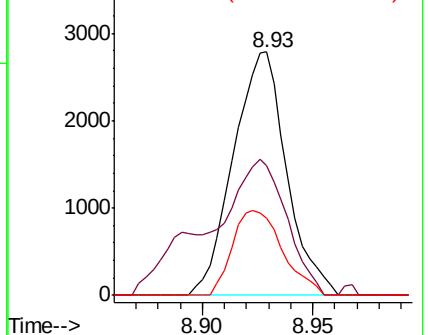
114 31.7 22.6 42.0



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 1.242 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV009085.D

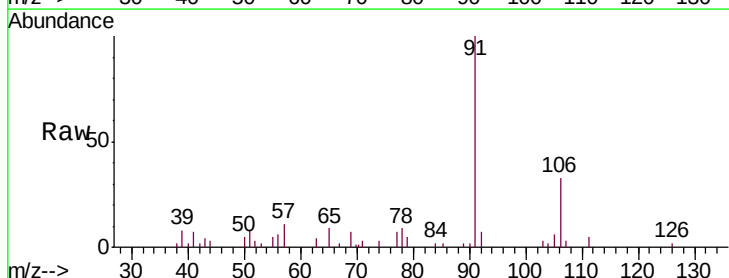
Acq: 20 Dec 2018 15:35

Tgt Ion: 91 Resp: 12180

Ion Ratio Lower Upper

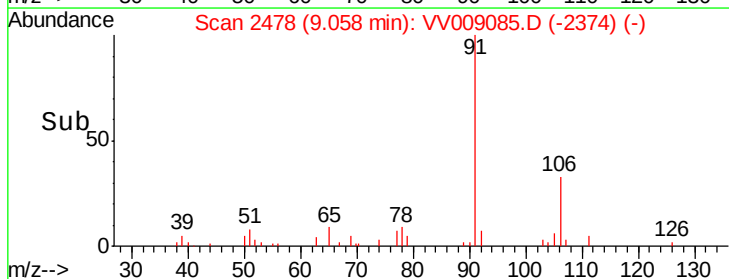
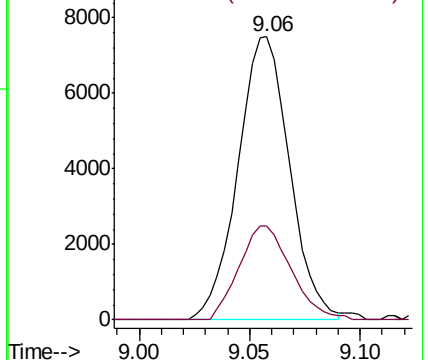
91 100

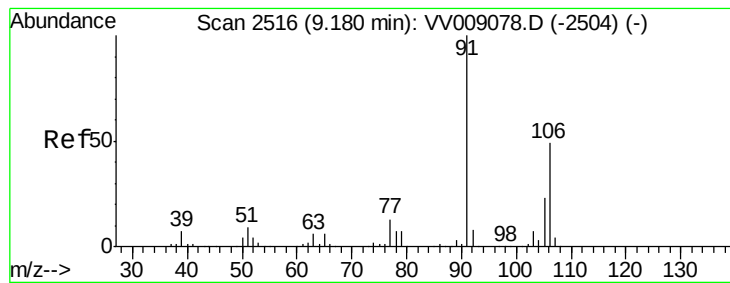
106 33.1 21.3 39.5



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 2.826 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV009085.D

Acq: 20 Dec 2018 15:35

Instrument :

MSVOA_V

ClientSampled :

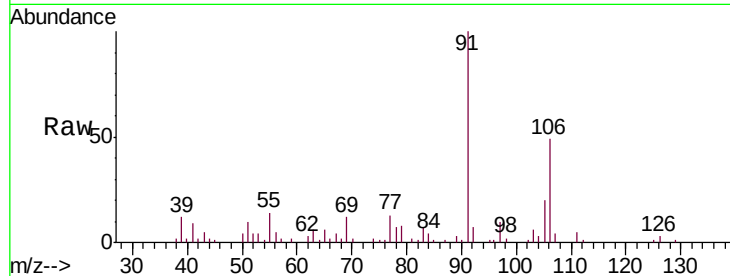
BE7Z6

Tgt Ion:106 Resp: 10495

Ion Ratio Lower Upper

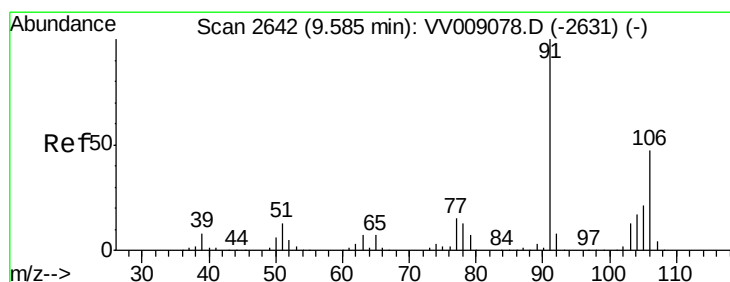
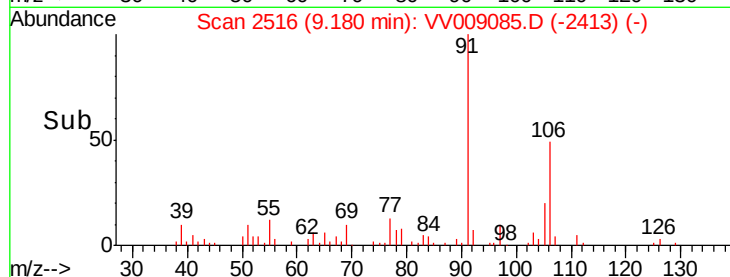
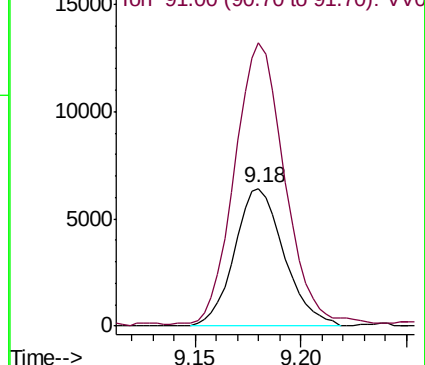
106 100

91 205.6 141.3 262.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

o-xylene

Concen: 2.480 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV009085.D

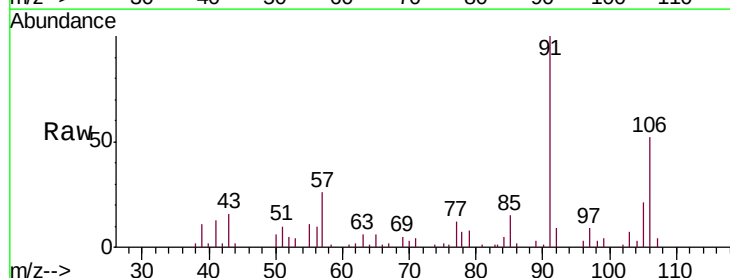
Acq: 20 Dec 2018 15:35

Tgt Ion:106 Resp: 8556

Ion Ratio Lower Upper

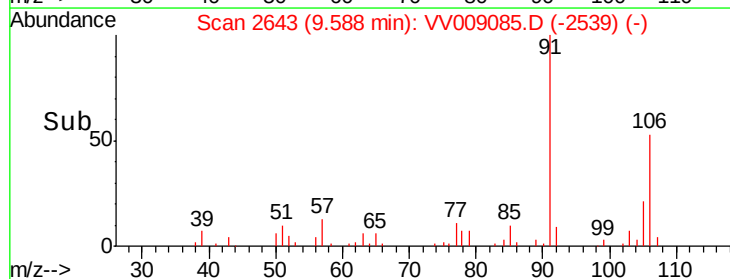
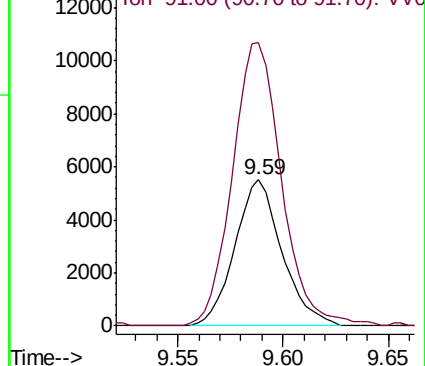
106 100

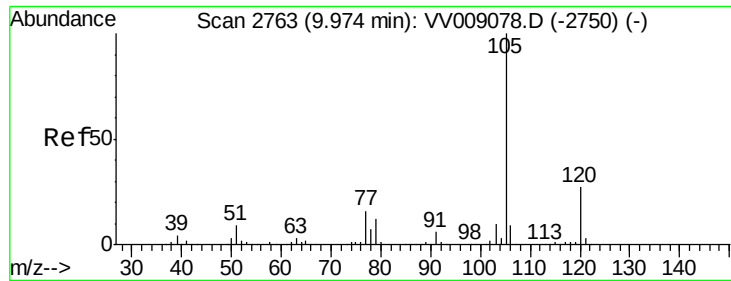
91 193.4 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#57

Isopropylbenzene

Concen: 2.210 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV009085.D

Acq: 20 Dec 2018 15:35

Instrument :

MSVOA_V

ClientSampleId :

BE7Z6

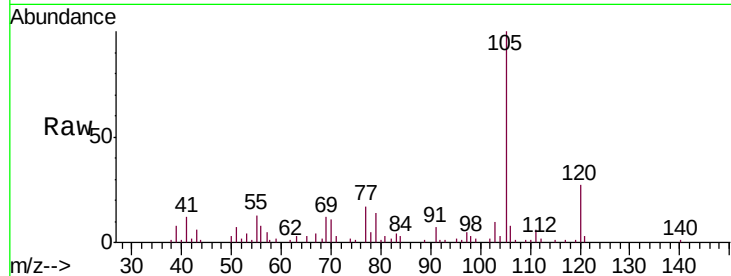
Tgt Ion: 105 Resp: 20726

Ion Ratio Lower Upper

105 100

120 26.7 21.7 32.5

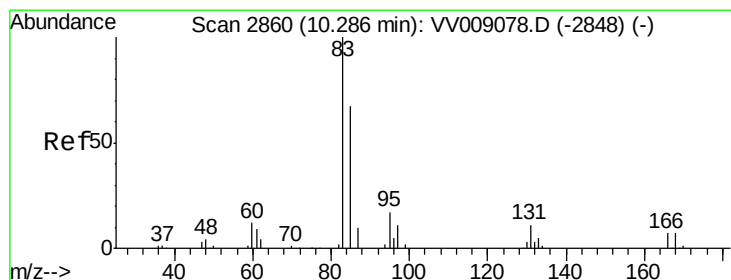
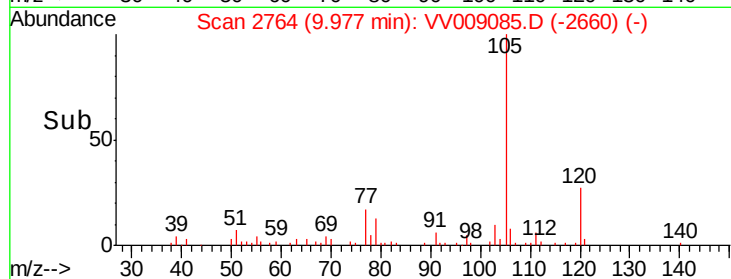
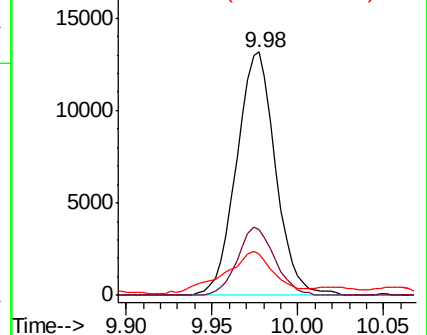
77 19.6 12.4 18.6#



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: 5.636 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV009085.D

Acq: 20 Dec 2018 15:35

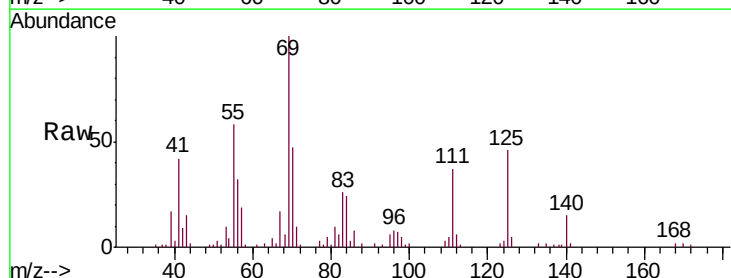
Tgt Ion: 83 Resp: 10503

Ion Ratio Lower Upper

83 100

85 11.0 44.3 82.3#

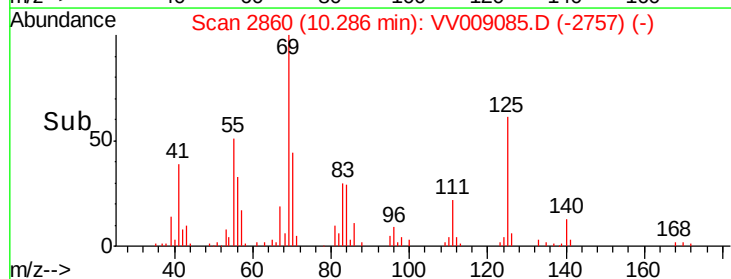
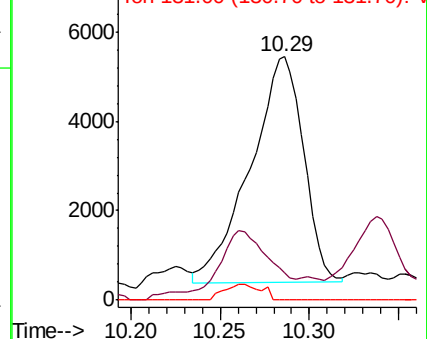
131 0.0 7.8 11.8#

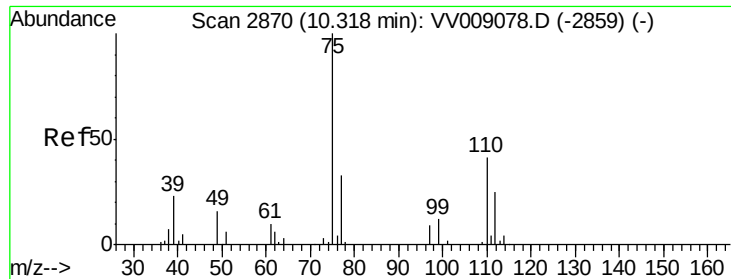


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

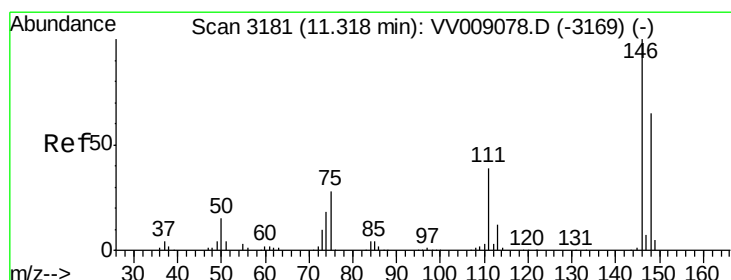
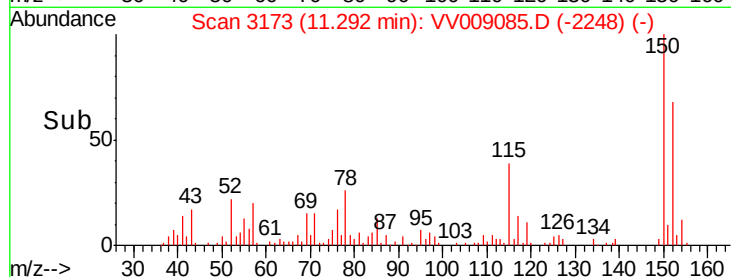
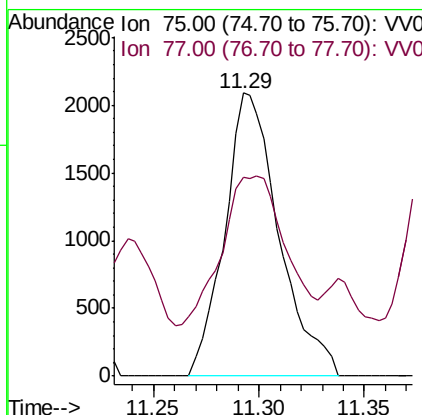
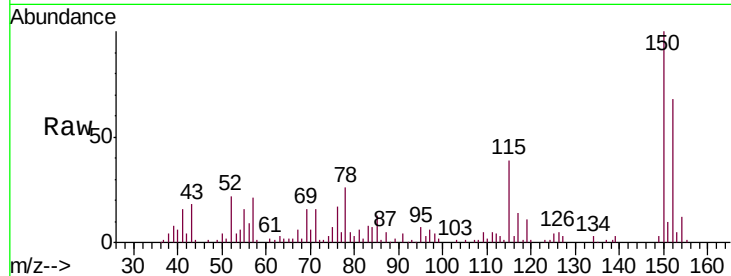




#59
 1,2,3-Trichloropropane
 Concen: 2.312 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. 0.97 min
 Lab File: VV009085.D
 Acq: 20 Dec 2018 15:35

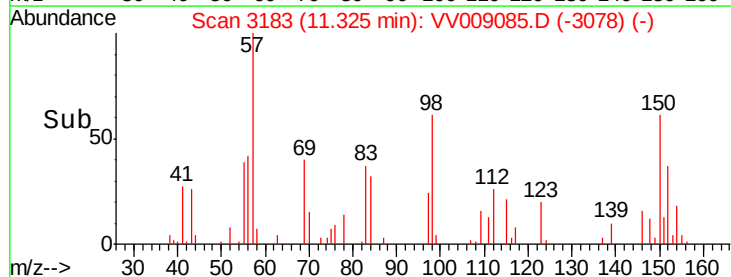
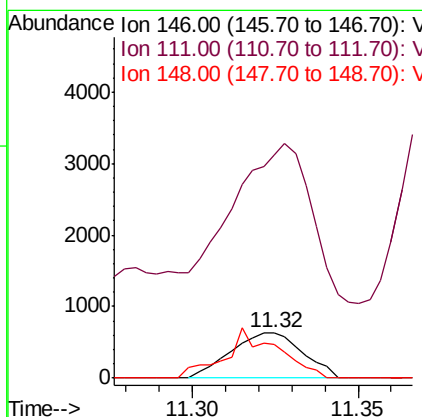
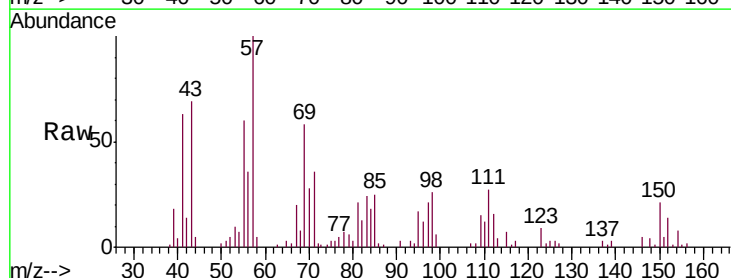
Instrument :
 MSVOA_V
 ClientSampled :
 BE7Z6

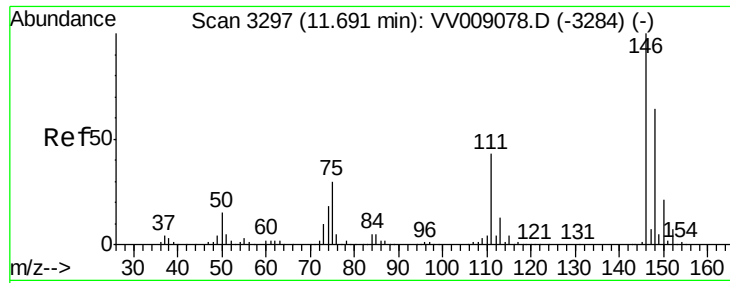
Tgt Ion: 75 Resp: 3728
 Ion Ratio Lower Upper
 75 100
 77 29.0 25.6 38.4



#64
 1,4-Dichlorobenzene
 Concen: 0.407 ug/L
 RT: 11.32 min Scan# 3183
 Delta R.T. 0.01 min
 Lab File: VV009085.D
 Acq: 20 Dec 2018 15:35

Tgt Ion: 146 Resp: 951
 Ion Ratio Lower Upper
 146 100
 111 493.4 26.8 49.8#
 148 75.1 45.8 85.0

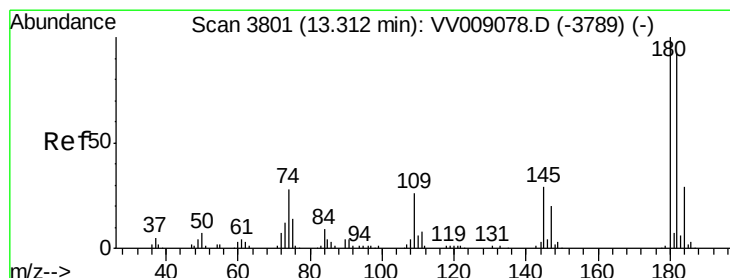
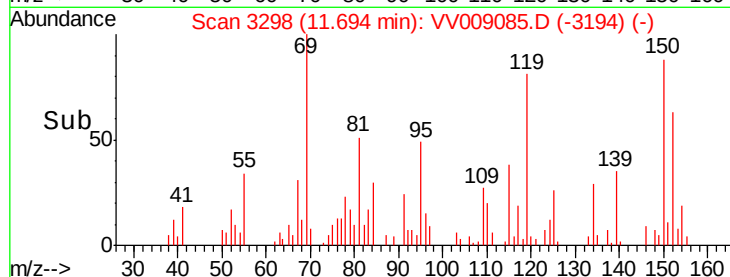
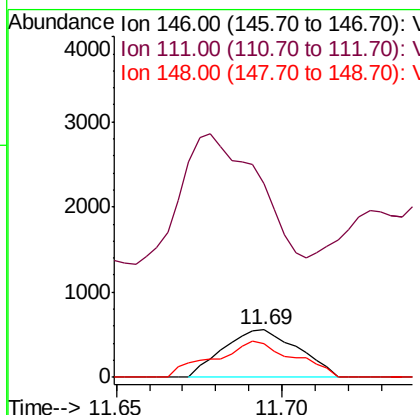
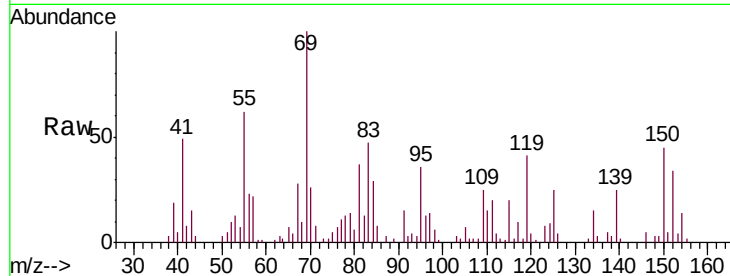




#65
 1,2-Dichlorobenzene
 Concen: 0.420 ug/L
 RT: 11.69 min Scan# 3298
 Delta R.T. 0.00 min
 Lab File: VV009085.D
 Acq: 20 Dec 2018 15:35

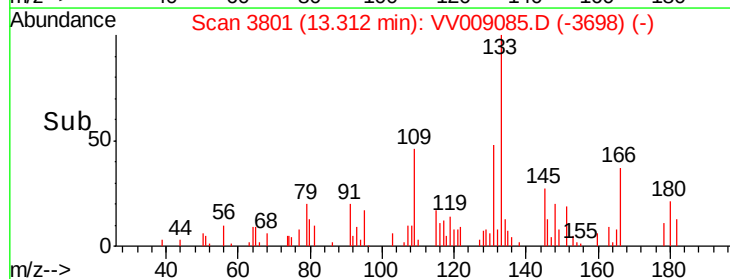
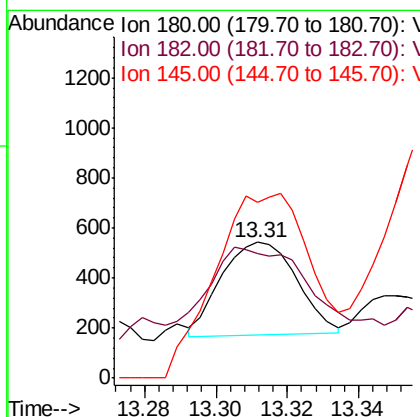
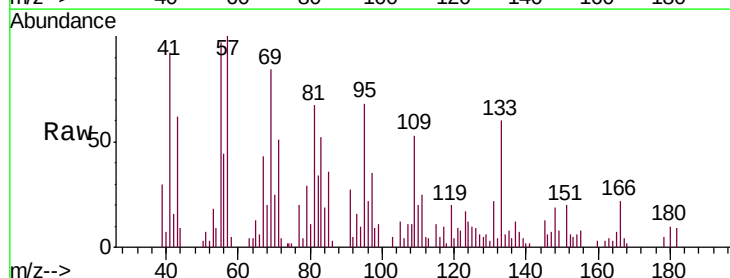
Instrument :
 MSVOA_V
 ClientSampleId :
 BE7Z6

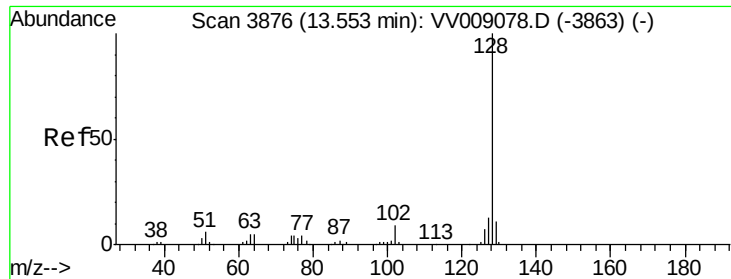
Tgt Ion:146 Resp: 878
 Ion Ratio Lower Upper
 146 100
 111 409.9 34.2 51.4#
 148 70.1 51.0 76.6



#68
 1,2,4-trichlorobenzene
 Concen: 0.473 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. -0.00 min
 Lab File: VV009085.D
 Acq: 20 Dec 2018 15:35

Tgt Ion:180 Resp: 543
 Ion Ratio Lower Upper
 180 100
 182 62.1 77.4 116.0#
 145 125.4 25.6 38.4#





#69

Naphthalene

Concen: 3.958 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV009085.D

Acq: 20 Dec 2018 15:35

Instrument :

MSVOA_V

ClientSampleId :

BE7Z6

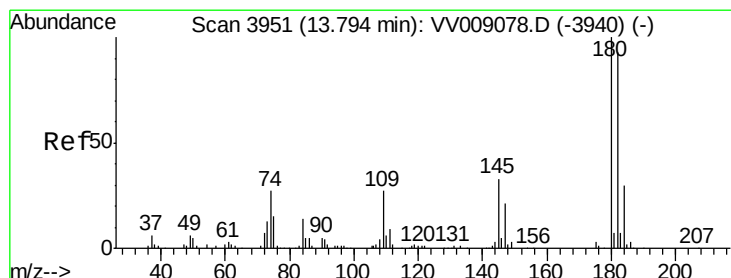
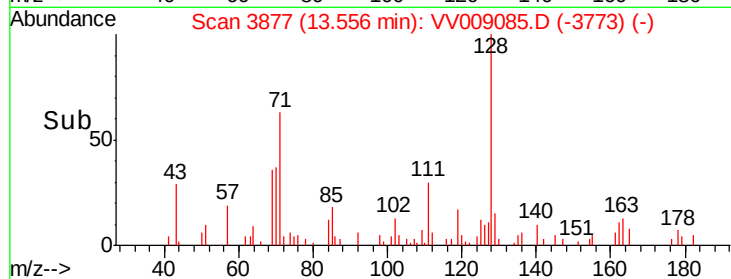
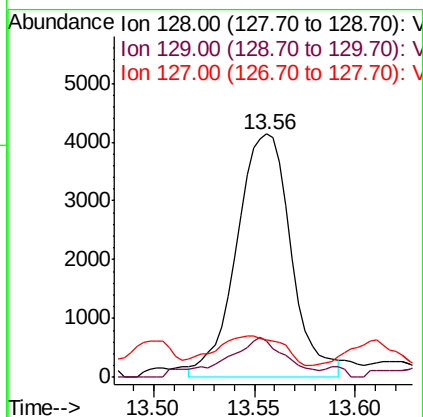
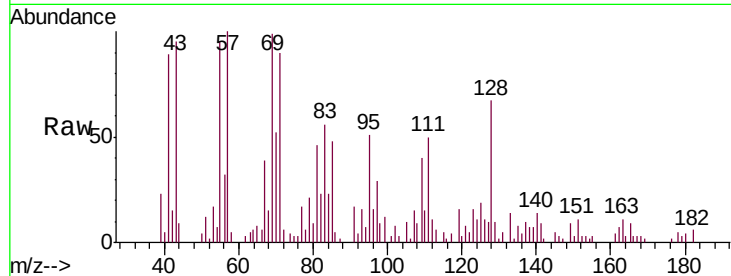
Tgt Ion:128 Resp: 7827

Ion Ratio Lower Upper

128 100

129 17.1 8.6 13.0#

127 15.8 10.0 15.0#



#70

1,2,3-Trichlorobenzene

Concen: 1.028 ug/L

RT: 13.81 min Scan# 3957

Delta R.T. 0.02 min

Lab File: VV009085.D

Acq: 20 Dec 2018 15:35

Tgt Ion:180 Resp: 1090

Ion Ratio Lower Upper

180 100

182 7.9 76.1 114.1#

145 239.8 26.7 40.1#

