

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040519\
 Data File : VV010128.D
 Acq On : 05 Apr 2019 13:10
 Operator : SY/MD
 Sample : K2148-17
 Misc : 4.70G/10mL/MSVOA_V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BF5J3

Quant Time: Apr 05 23:49:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Apr 05 23:46:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	278312	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	274432	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	195015	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	61043	16.38	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	65.52%
7) Chloroethane-d5	1.58	69	103173	22.29	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.16%
10) 1,1-Dichloroethene-d2	2.13	63	127604	13.58	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	54.32%
20) 2-Butanone-d5	3.95	46	32907	31.04	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	62.08%
24) Chloroform-d	4.40	84	146023	20.83	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	83.32%
26) 1,2-Dichloroethane-d4	5.08	65	80696	20.57	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	82.28%
29) Benzene-d6	5.10	84	302516	21.26	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	85.04%
33) 1,2-Dichloropropane-d6	6.12	67	87689	20.88	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	83.52%
37) Toluene-d8	7.36	98	277488	20.24	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	80.96%
38) trans-1,3-Dichloropropene-	7.67	79	34043	18.96	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	75.84%
39) 2-Hexanone-d5	8.14	63	30384	36.07	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	72.14%
48) 1,1,2,2-Tetrachloroethane-	10.29	84	374098	90.31	ug/L	0.03
Spiked Amount	25.000	Range	45 - 120	Recovery	=	361.24%#
61) 1,2-Dichlorobenzene-d4	11.68	152	274927	36.19	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	144.76%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acetone	2.21	43	21417	20.432	ug/L	100
14) Carbon disulfide	2.32	76	2635	0.334	ug/L #	88
16) Methylene chloride	2.54	84	12747	2.607	ug/L	98
21) 2-Butanone	4.04	43	1757	1.531	ug/L	89
36) Methylcyclohexane	6.17	83	33202	5.737	ug/L	89
42) cis-1,3-Dichloropropene	7.03	75	3153	0.642	ug/L #	65
43) 4-Methyl-2-pentanone	7.31	43	17782	7.088	ug/L #	50
49) 2-Hexanone	8.12	43	366672	204.620	ug/L #	24
57) Isopropylbenzene	9.98	105	110886	6.751	ug/L #	90
58) 1,1,2,2-Tetrachloroethane	10.29	83	737905	191.084	ug/L #	34
59) 1,2,3-Trichloropropane	10.29	75	2008	0.725	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	12.47	75	15143	19.861	ug/L #	9
67) 1,3,5-Trichlorobenzene	12.67	180	8447	0.994	ug/L #	21
68) 1,2,4-trichlorobenzene	13.27	180	10150	1.559	ug/L #	1
69) Naphthalene	13.54	128	320312	29.578	ug/L #	2
70) 1,2,3-Trichlorobenzene	13.75	180	46624	7.672	ug/L #	1

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Quant Title : VOC Analysis
QLast Update : Fri Apr 05 23:46:15 2019
Response via : Initial Calibration

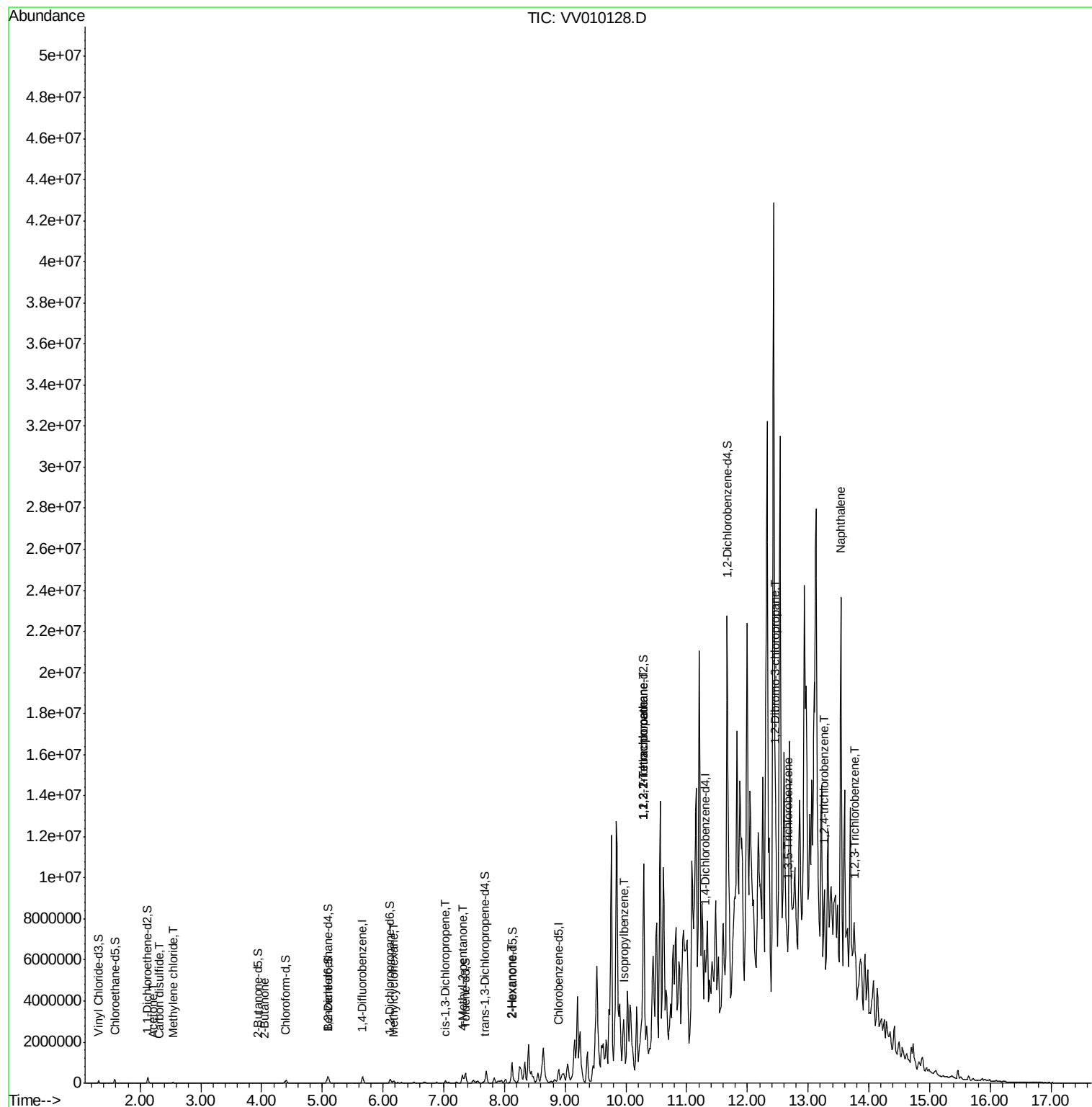
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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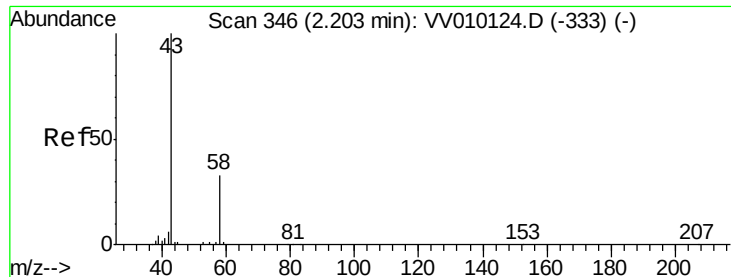
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 20.432 ug/L

RT: 2.21 min Scan# 347

Delta R.T. 0.01 min

Lab File: VV010128.D

Acq: 05 Apr 2019 13:10

Instrument :

MSVOA_V

ClientSampled :

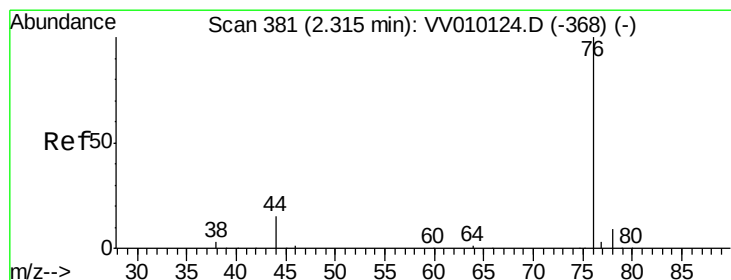
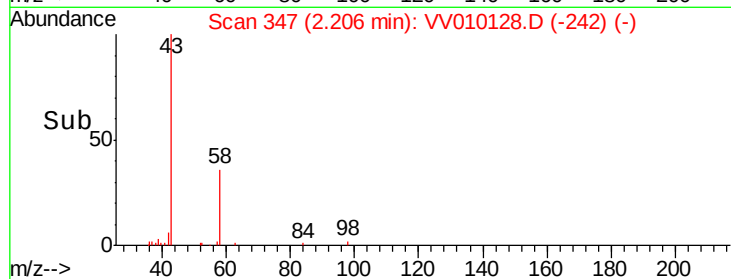
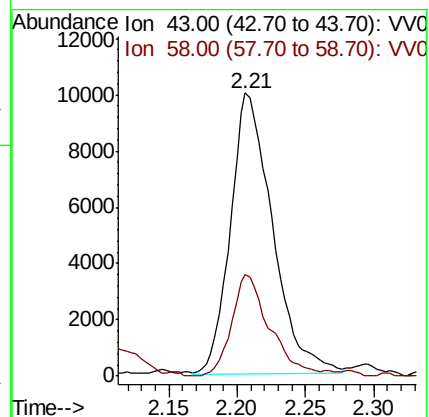
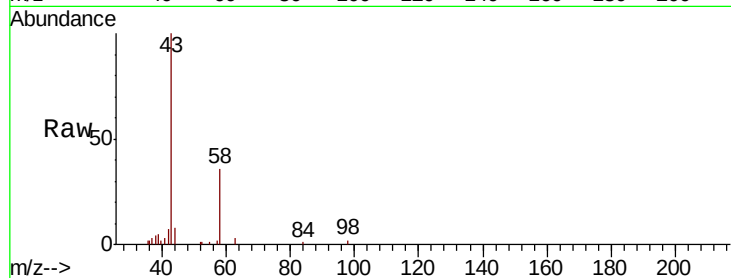
BF5J3

Tgt Ion: 43 Resp: 21417

Ion Ratio Lower Upper

43 100

58 32.5 0.0 64.6



#14

Carbon disulfide

Concen: 0.334 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV010128.D

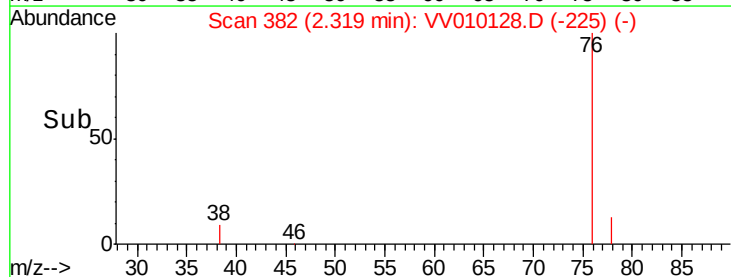
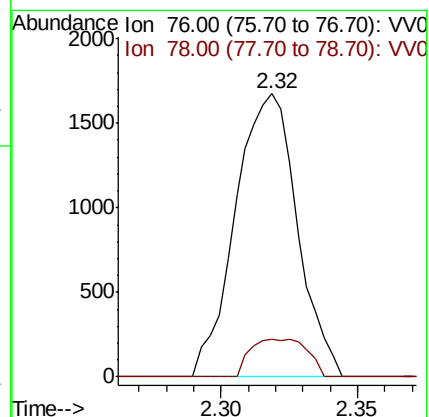
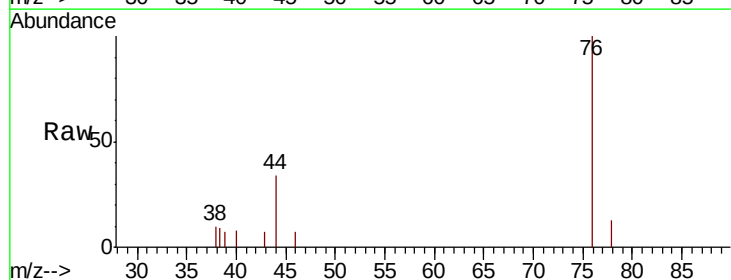
Acq: 05 Apr 2019 13:10

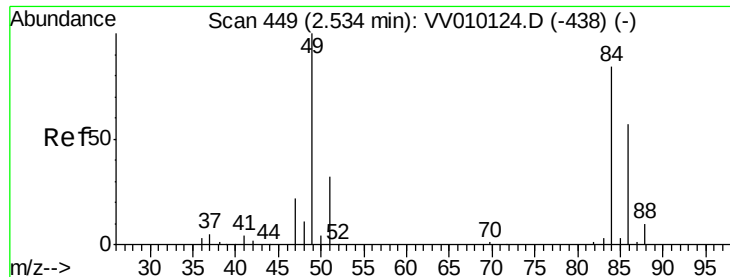
Tgt Ion: 76 Resp: 2635

Ion Ratio Lower Upper

76 100

78 13.1 7.1 10.7#

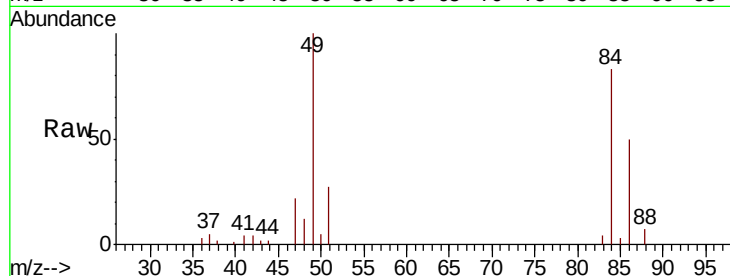




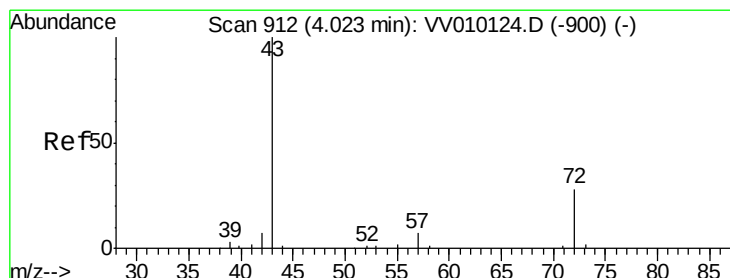
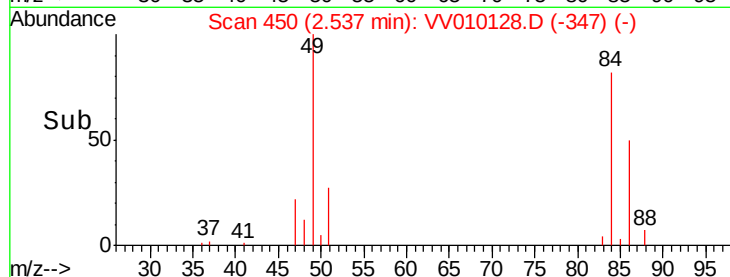
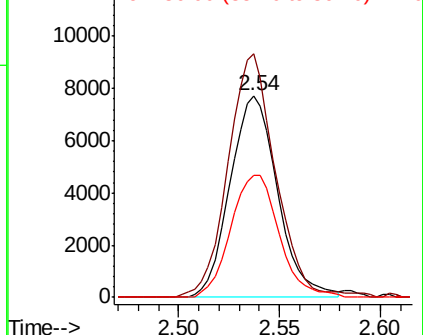
#16
Methylene chloride
Concen: 2.607 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV010128.D
Acq: 05 Apr 2019 13:10

Instrument :
MSVOA_V
ClientSampled :
BF5J3

Tgt Ion: 84 Resp: 12747
Ion Ratio Lower Upper
84 100
49 120.6 84.3 156.5
86 60.5 45.4 84.2

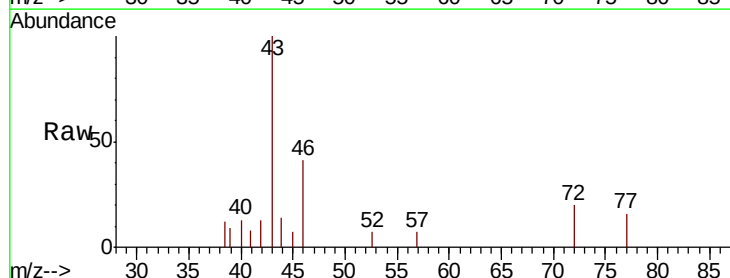


Abundance Ion 84.00 (83.70 to 84.70): VV0
Ion 49.00 (48.70 to 49.70): VV0
Ion 86.00 (85.70 to 86.70): VV0

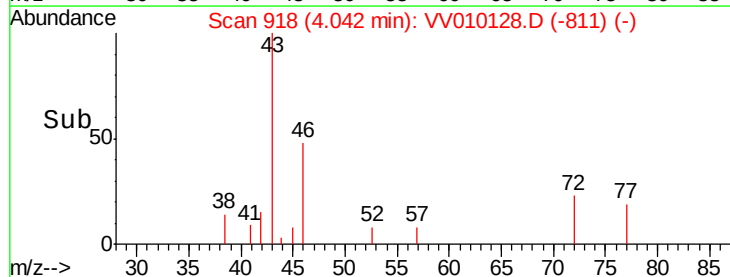
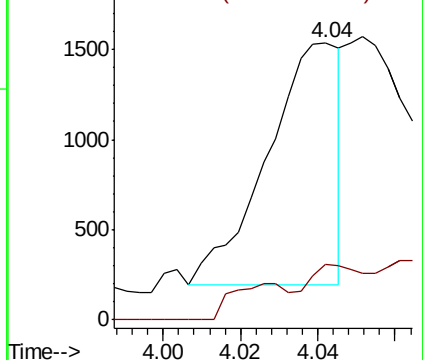


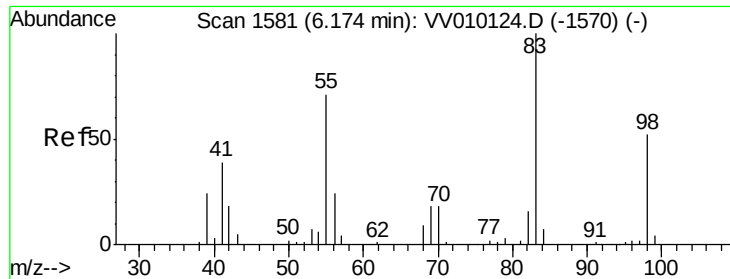
#21
2-Butanone
Concen: 1.531 ug/L
RT: 4.04 min Scan# 918
Delta R.T. 0.01 min
Lab File: VV010128.D
Acq: 05 Apr 2019 13:10

Tgt Ion: 43 Resp: 1757
Ion Ratio Lower Upper
43 100
72 19.9 12.8 38.4



Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 72.00 (71.70 to 72.70): VV0

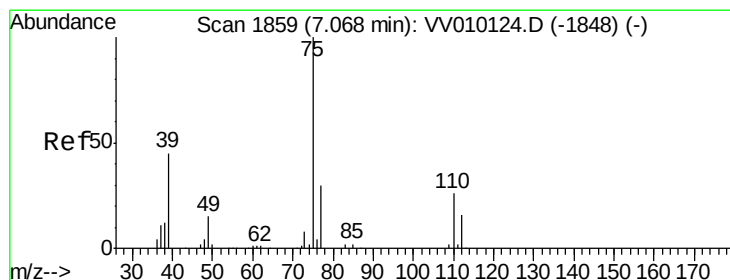
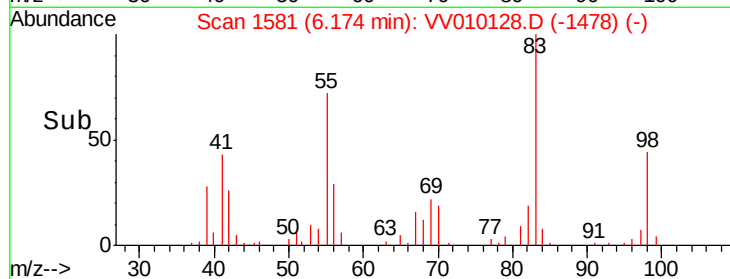
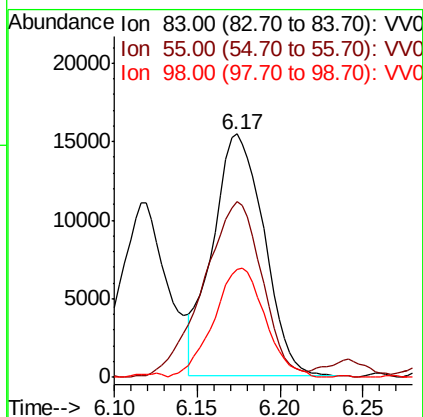
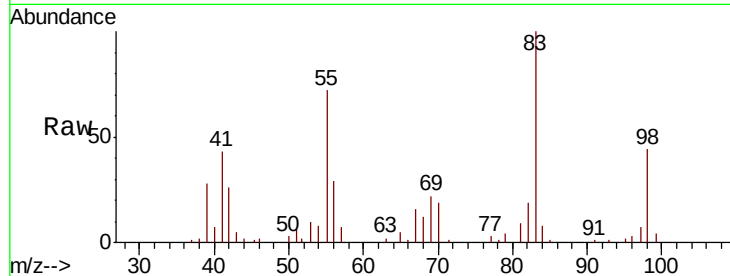




#36
Methylcyclohexane
Concen: 5.737 ug/L
RT: 6.17 min Scan# 1581
Delta R.T. 0.00 min
Lab File: VV010128.D
Acq: 05 Apr 2019 13:10

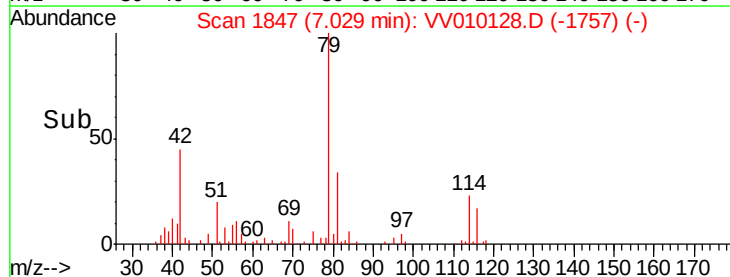
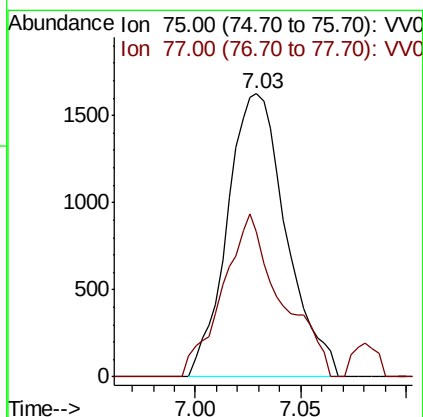
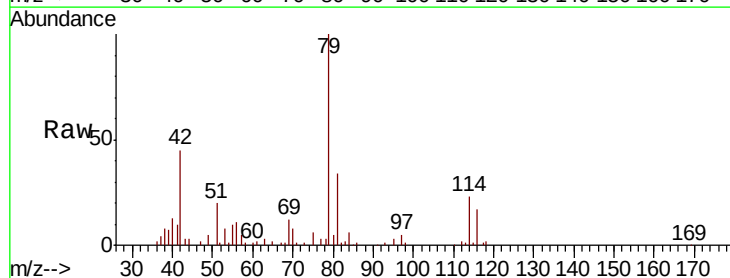
Instrument :
MSVOA_V
ClientSampled :
BF5J3

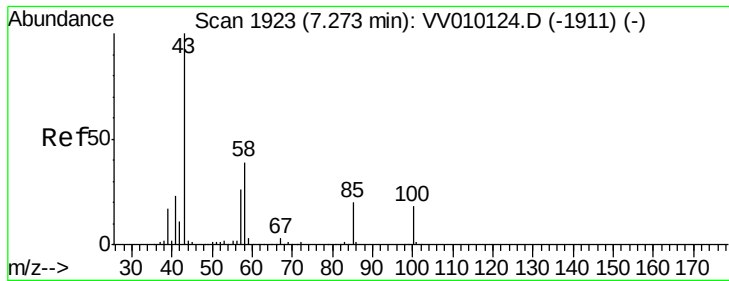
Tgt Ion: 83 Resp: 33202
Ion Ratio Lower Upper
83 100
55 82.6 56.3 84.5
98 45.2 39.0 58.6



#42
cis-1,3-Dichloropropene
Concen: 0.642 ug/L
RT: 7.03 min Scan# 1847
Delta R.T. -0.04 min
Lab File: VV010128.D
Acq: 05 Apr 2019 13:10

Tgt Ion: 75 Resp: 3153
Ion Ratio Lower Upper
75 100
77 51.3 22.1 41.1#

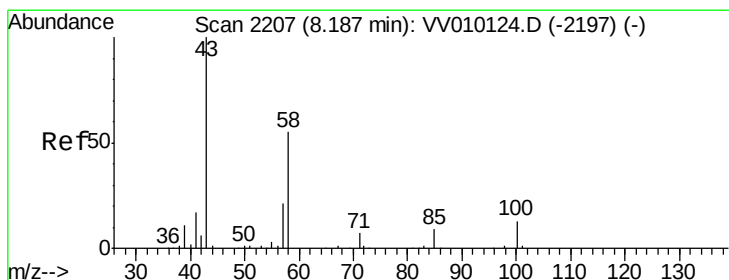
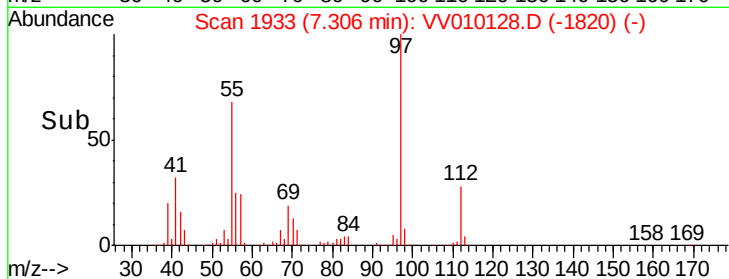
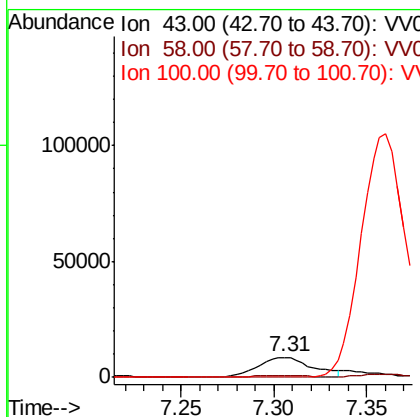
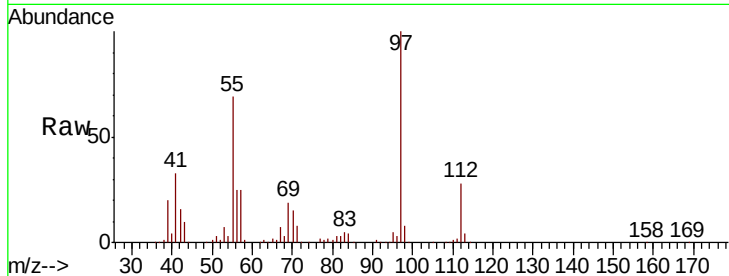




#43
 4-Methyl-2-pentanone
 Concen: 7.088 ug/L
 RT: 7.31 min Scan# 1933
 Delta R.T. 0.03 min
 Lab File: VV010128.D
 Acq: 05 Apr 2019 13:10

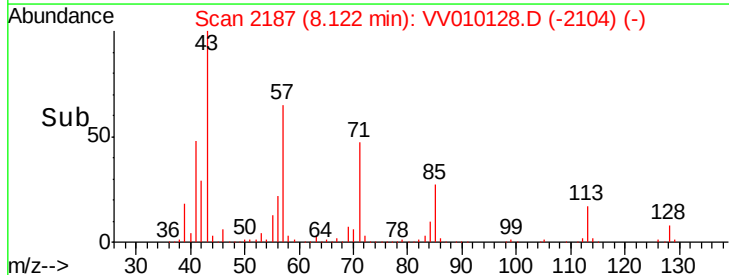
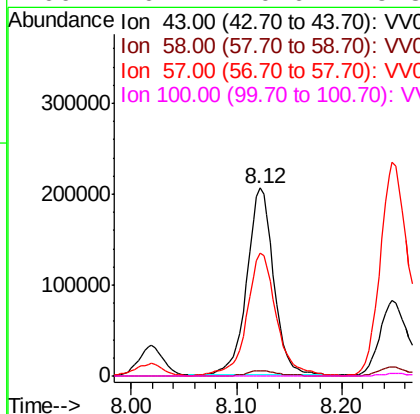
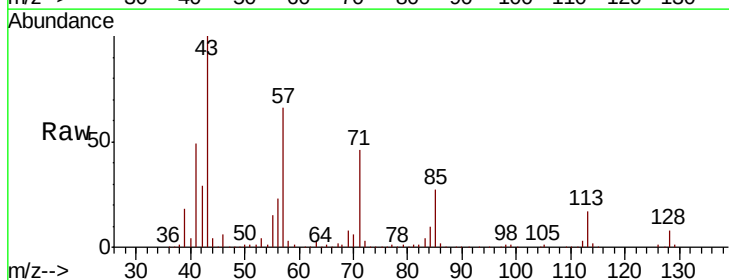
Instrument :
 MSVOA_V
 ClientSampled :
 BF5J3

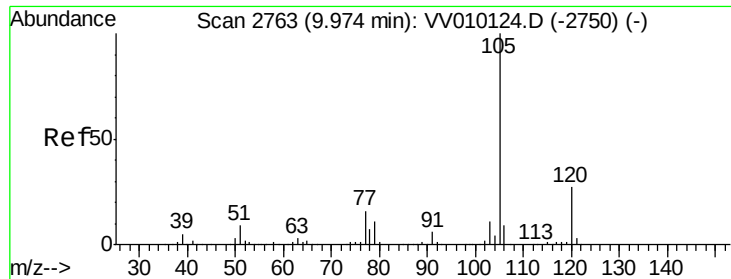
Tgt Ion: 43 Resp: 17782
 Ion Ratio Lower Upper
 43 100
 58 5.8 31.5 47.3#
 100 0.0 13.4 20.0#



#49
 2-Hexanone
 Concen: 204.620 ug/L
 RT: 8.12 min Scan# 2187
 Delta R.T. -0.06 min
 Lab File: VV010128.D
 Acq: 05 Apr 2019 13:10

Tgt Ion: 43 Resp: 366672
 Ion Ratio Lower Upper
 43 100
 58 3.1 44.3 66.5#
 57 71.0 13.8 20.8#
 100 0.1 10.6 15.8#





#57

Isopropylbenzene

Concen: 6.751 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV010128.D

Acq: 05 Apr 2019 13:10

Instrument :

MSVOA_V

ClientSampled :

BF5J3

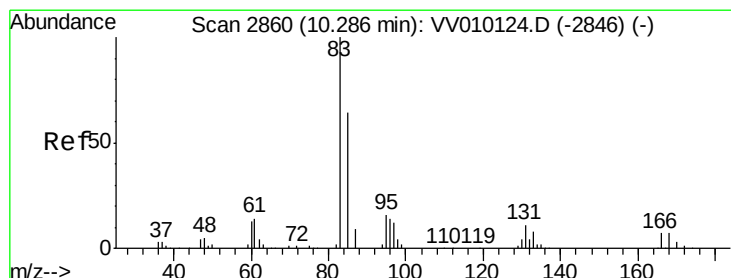
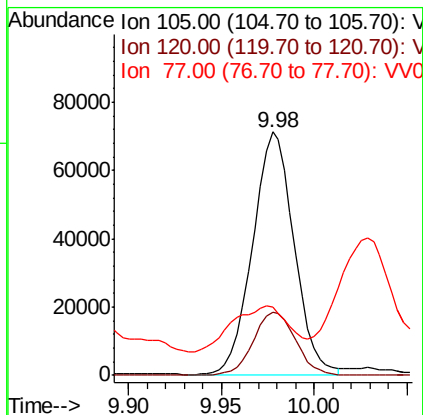
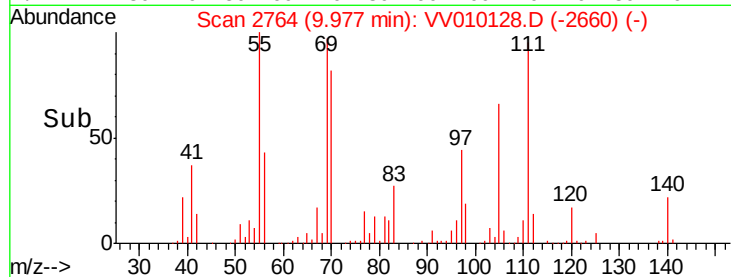
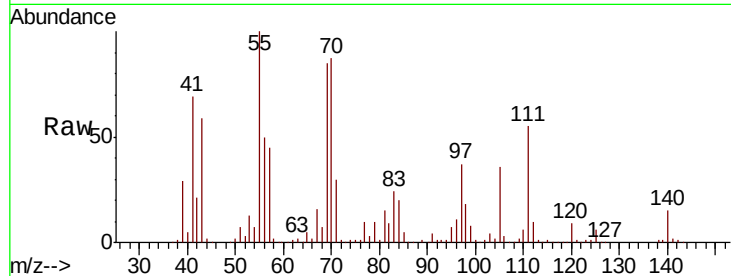
Tgt Ion: 105 Resp: 110886

Ion Ratio Lower Upper

105 100

120 26.7 21.5 32.3

77 26.4 12.4 18.6#



#58

1,1,2,2-Tetrachloroethane

Concen: 191.084 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. 0.01 min

Lab File: VV010128.D

Acq: 05 Apr 2019 13:10

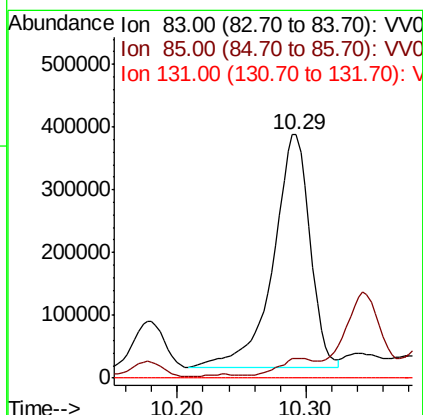
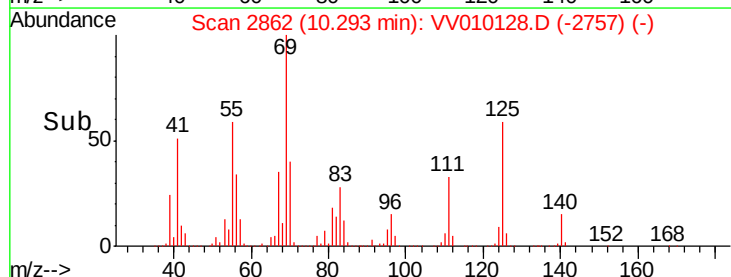
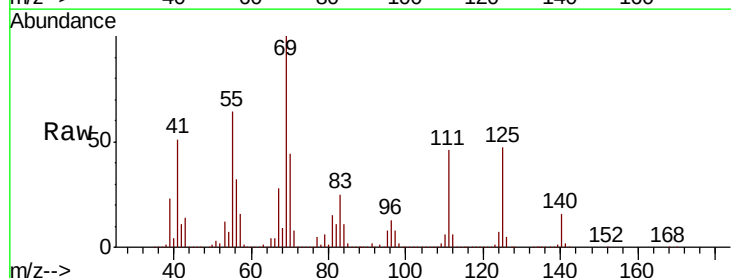
Tgt Ion: 83 Resp: 737905

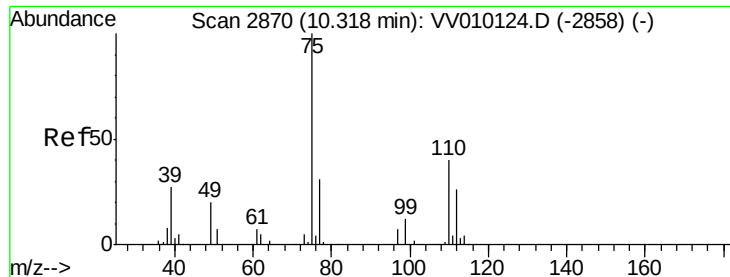
Ion Ratio Lower Upper

83 100

85 8.3 46.1 85.7#

131 0.0 9.0 13.4#





#59

1,2,3-Trichloropropane

Concen: 0.725 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.03 min

Lab File: VV010128.D

Acq: 05 Apr 2019 13:10

Instrument :

MSVOA_V

ClientSampled :

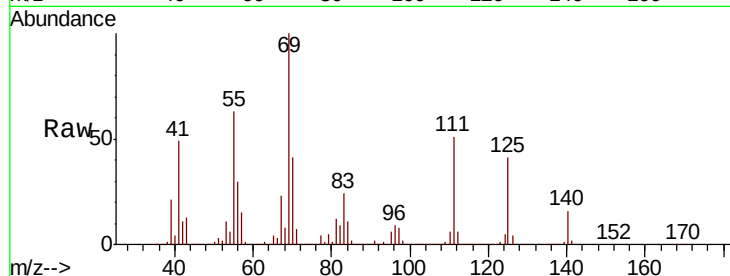
BF5J3

Tgt Ion: 75 Resp: 2008

Ion Ratio Lower Upper

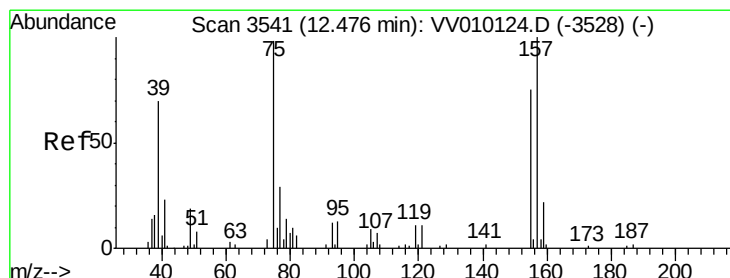
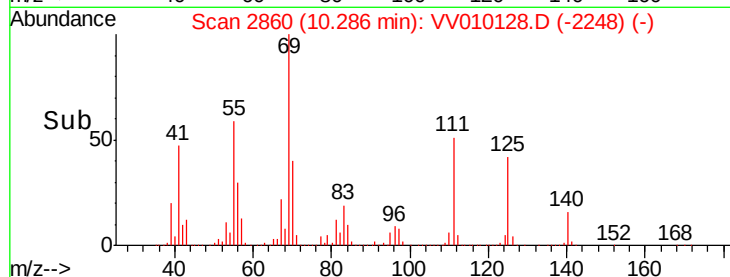
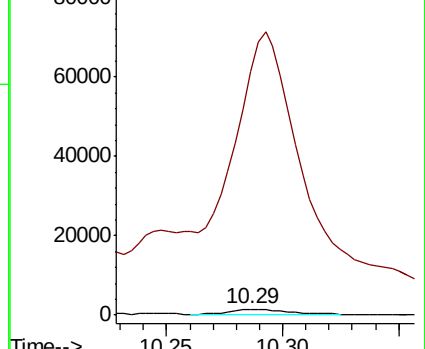
75 100

77 6732.4 25.8 38.8#



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#66

1,2-Dibromo-3-chloropropane

Concen: 19.861 ug/L

RT: 12.47 min Scan# 3539

Delta R.T. -0.01 min

Lab File: VV010128.D

Acq: 05 Apr 2019 13:10

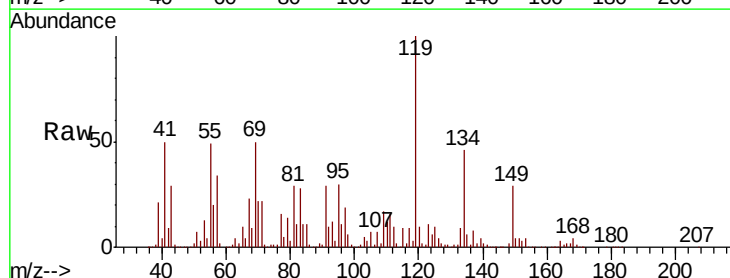
Tgt Ion: 75 Resp: 15143

Ion Ratio Lower Upper

75 100

157 0.0 83.0 124.6#

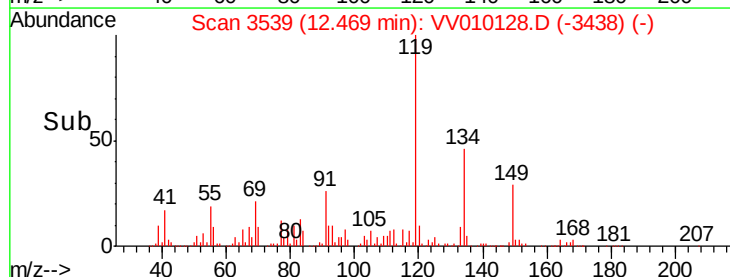
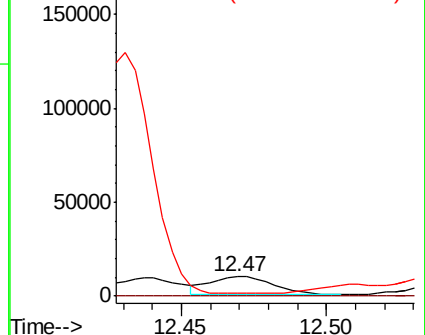
155 14.4 68.1 102.1#

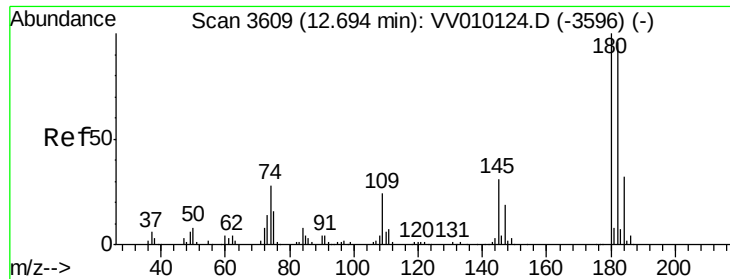


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

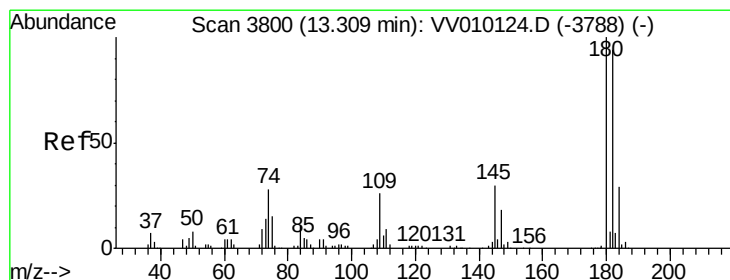
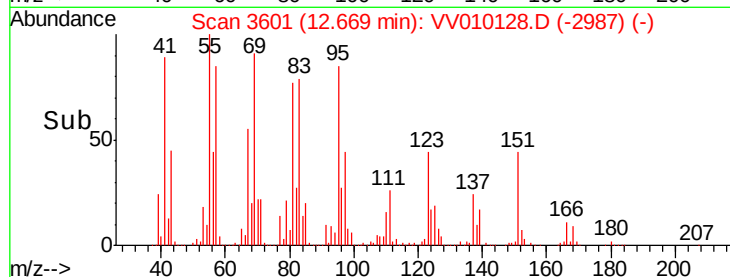
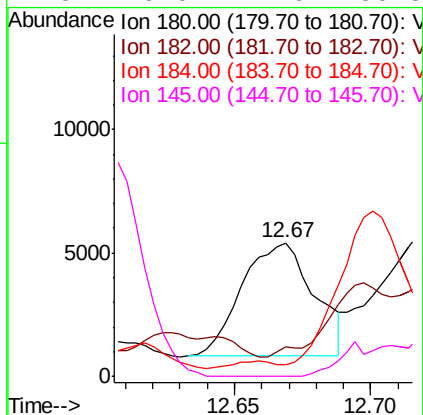
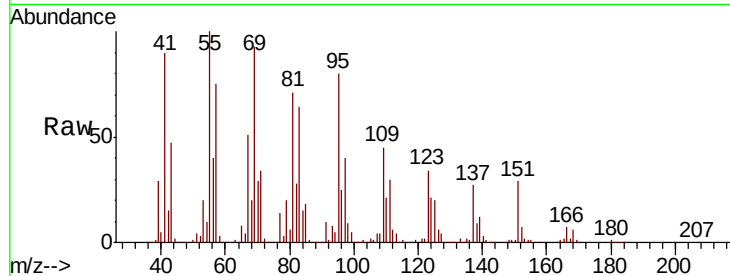




#67
 1,3,5-Trichlorobenzene
 Concen: 0.994 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. -0.03 min
 Lab File: VV010128.D
 Acq: 05 Apr 2019 13:10

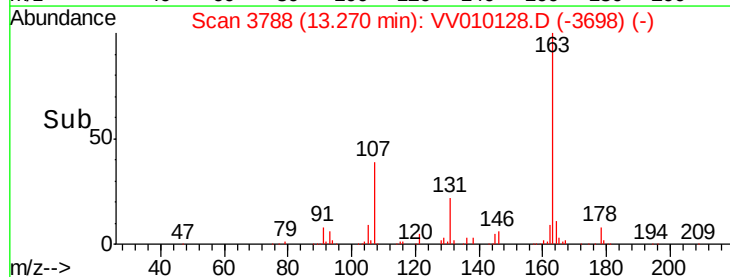
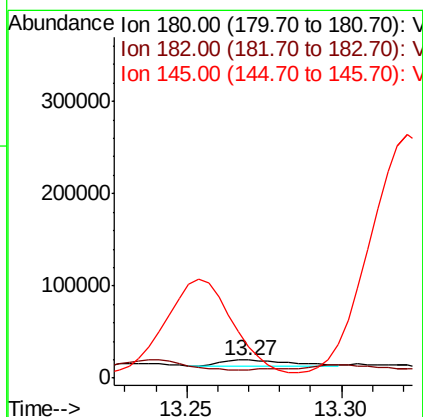
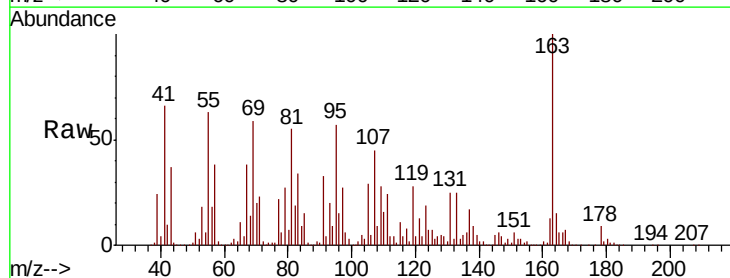
Instrument :
 MSVOA_V
 ClientSampled :
 BF5J3

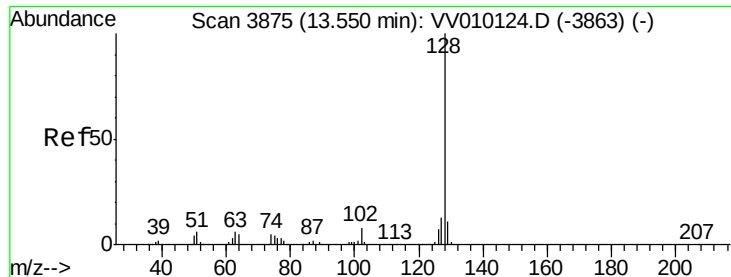
Tgt Ion:180 Resp: 8447
 Ion Ratio Lower Upper
 180 100
 182 3.1 77.2 115.8#
 184 3.1 23.8 35.6#
 145 0.0 24.6 36.8#



#68
 1,2,4-trichlorobenzene
 Concen: 1.559 ug/L
 RT: 13.27 min Scan# 3788
 Delta R.T. -0.04 min
 Lab File: VV010128.D
 Acq: 05 Apr 2019 13:10

Tgt Ion:180 Resp: 10150
 Ion Ratio Lower Upper
 180 100
 182 8.6 75.7 113.5#
 145 1725.1 24.6 37.0#





#69

Naphthalene

Concen: 29.578 ug/L

RT: 13.54 min Scan# 3872

Delta R.T. -0.01 min

Lab File: VV010128.D

Acq: 05 Apr 2019 13:10

Instrument :

MSVOA_V

ClientSampled :

BF5J3

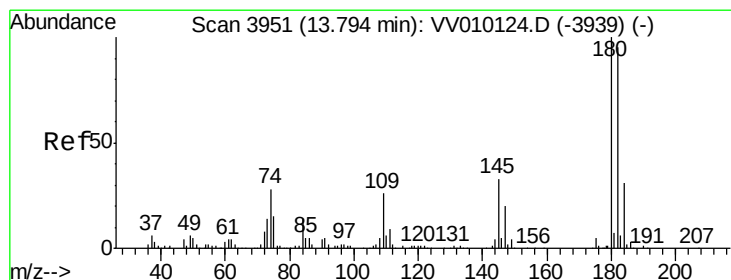
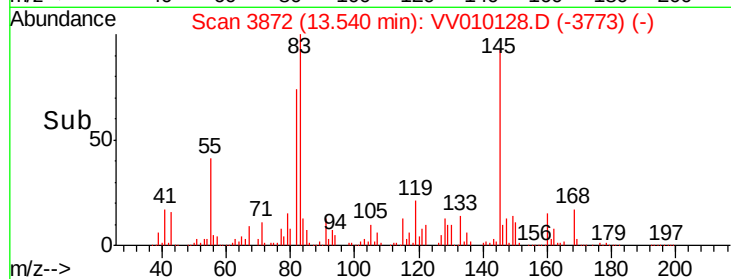
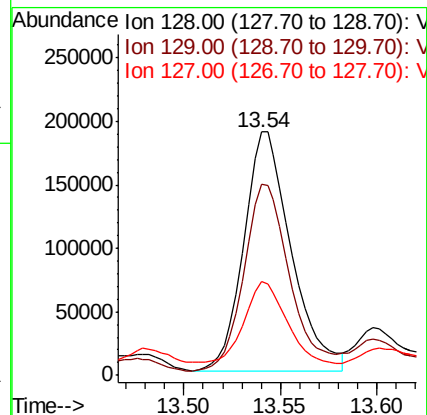
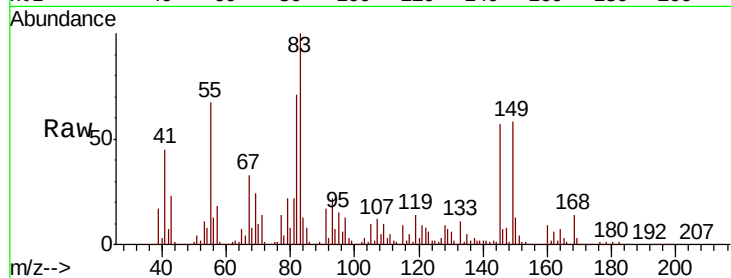
Tgt Ion:128 Resp: 320312

Ion Ratio Lower Upper

128 100

129 75.7 9.0 13.4#

127 30.0 11.0 16.4#



#70

1,2,3-Trichlorobenzene

Concen: 7.672 ug/L

RT: 13.75 min Scan# 3938

Delta R.T. -0.04 min

Lab File: VV010128.D

Acq: 05 Apr 2019 13:10

Tgt Ion:180 Resp: 46624

Ion Ratio Lower Upper

180 100

182 77.6 74.1 111.1

145 453.2 25.8 38.8#

