

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101618\
 Data File : VV008320.D
 Acq On : 17 Oct 2018 02:43
 Operator : SY/MD
 Sample : J5463-07
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 C0JB8

Quant Time: Oct 17 05:06:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR101518WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 17 05:02:19 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	78742	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	68889	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	27456	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	24300	5.46	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	109.20%
7) Chloroethane-d5	1.58	69	16202	4.61	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.20%
11) 1,1-Dichloroethene-d2	2.14	63	49212	5.76	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	115.20%
20) 2-Butanone-d5	3.96	46	69949	46.87	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.74%
24) Chloroform-d	4.41	84	42771	4.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.00%
26) 1,2-Dichloroethane-d4	5.09	65	22215	4.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.00%
32) Benzene-d6	5.10	84	90682	4.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.60%
36) 1,2-Dichloropropane-d6	6.12	67	31267	4.70	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.00%
41) Toluene-d8	7.36	98	79486	4.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.60%
43) trans-1,3-Dichloropropene-	7.67	79	10404	3.77	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	75.40%
46) 2-Hexanone-d5	8.14	63	40775	42.10	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	84.20%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	18939	4.28	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.60%
64) 1,2-Dichlorobenzene-d4	11.68	152	24777	4.75	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.25	50	658	0.106	ug/L #	77
5) Vinyl chloride	1.32	62	421410	71.927	ug/L	99
8) Chloroethane	1.32	64	132294	43.439	ug/L #	43
12) 1,1-Dichloroethene	2.14	96	30993	8.194	ug/L	86
13) Acetone	2.20	43	2417	2.993	ug/L	86
15) Methyl Acetate	2.48	43	388	0.193	ug/L #	50
17) Methyl tert-butyl Ether	2.82	73	12986	1.208	ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	3004	0.738	ug/L	98
19) 1,1-Dichloroethane	3.23	63	35628	4.237	ug/L	98
21) 2-Butanone	4.03	43	2233	1.332	ug/L #	58
22) cis-1,2-Dichloroethene	3.97	96	348435	53.028	ug/L #	99
27) 1,2-Dichloroethane	5.18	62	1448	0.236	ug/L #	74
29) 1,1,1-Trichloroethane	4.67	97	929	0.108	ug/L #	88
34) Trichloroethene	5.96	95	20332	3.160	ug/L	97
35) Methylcyclohexane	6.12	83	6988	0.644	ug/L #	18
39) cis-1,3-Dichloropropene	7.03	75	788	0.088	ug/L #	49
48) 2-Hexanone	8.19	43	14868	5.303	ug/L #	86

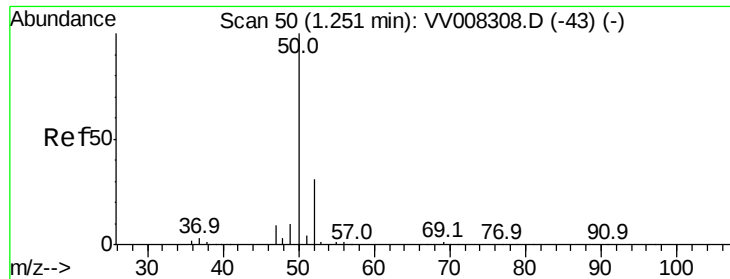
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101618\
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR101518WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 17 05:02:19 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	8.93	112	2173	0.151	ug/L	91
63) 1,4-Dichlorobenzene	11.32	146	3800	0.413	ug/L	95
65) 1,2-Dichlorobenzene	11.70	146	26606	2.986	ug/L	99

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



#3

Chloromethane

Concen: 0.106 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV008320.D

Acq: 17 Oct 2018 02:43

Instrument :

MSVOA_V

ClientSampleId :

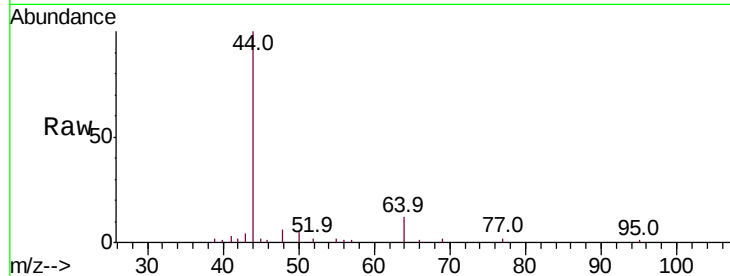
C0JB8

Tot Ion: 50 Resp: 658

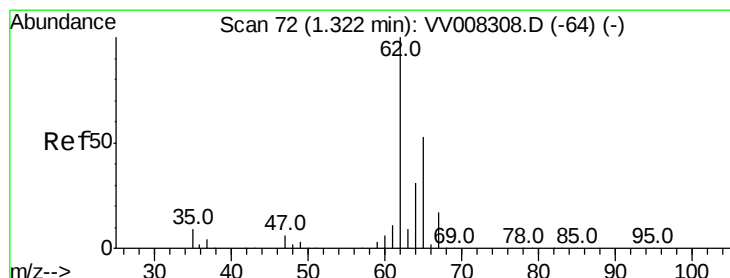
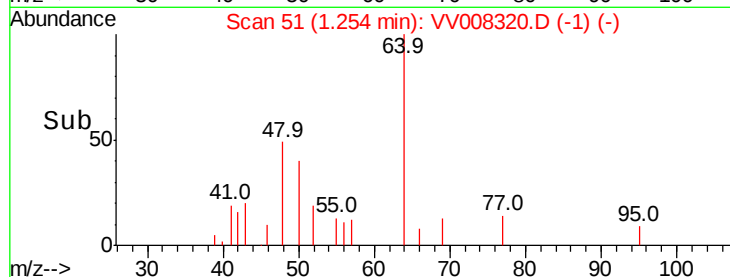
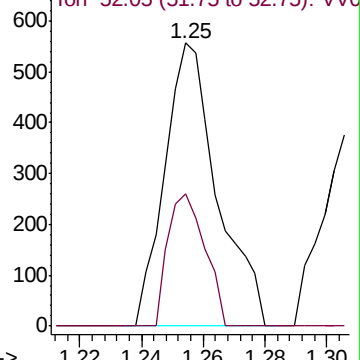
Ion Ratio Lower Upper

50 100

52 46.9 23.7 43.9#



Abundance Ion 50.05 (49.75 to 50.75): VV008308.D (-43) (-)



#5

Vinyl chloride

Concen: 71.927 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV008320.D

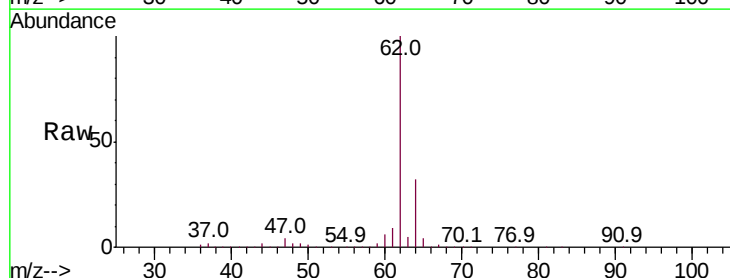
Acq: 17 Oct 2018 02:43

Tgt Ion: 62 Resp: 421410

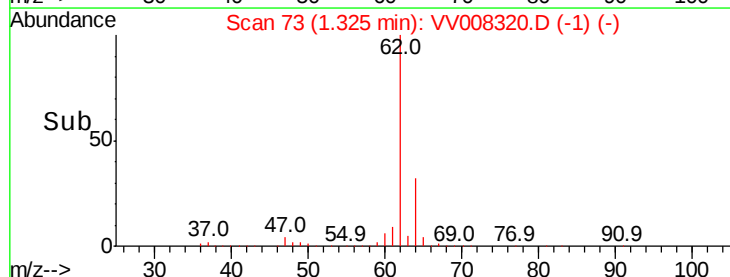
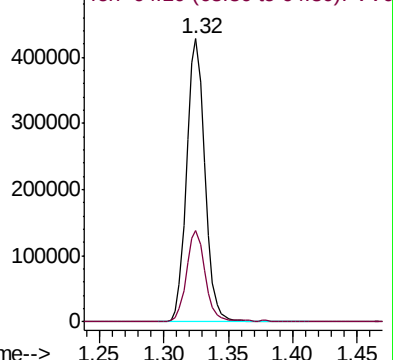
Ion Ratio Lower Upper

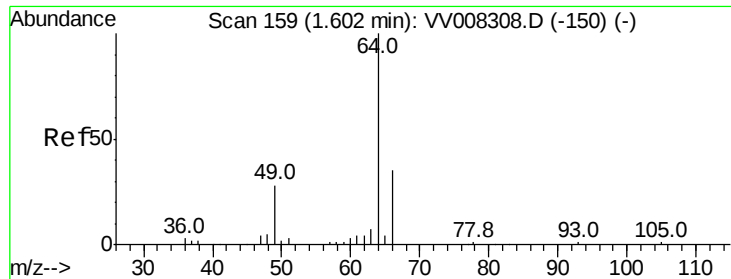
62 100

64 32.2 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VV008308.D (-64) (-)





#8

Chloroethane

Concen: 43.439 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.28 min

Lab File: VV008320.D

Acq: 17 Oct 2018 02:43

Instrument :

MSVOA_V

ClientSampleId :

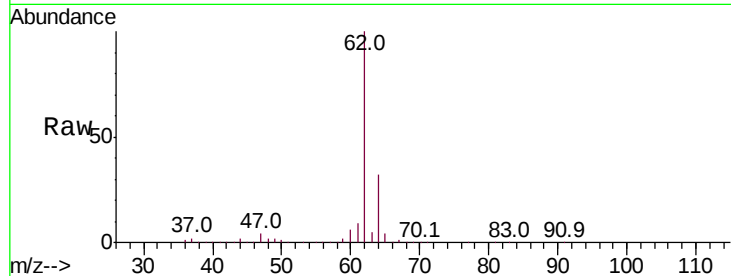
C0JB8

Tot Ion: 64 Resp: 132294

Ion Ratio Lower Upper

64 100

66 0.4 22.5 41.9#



Abundance Ion 64.10 (63.80 to 64.80): VV008320.D (-66) (-)

Ion 66.05 (65.75 to 66.75): VV008320.D (-66) (-)

1.32

150000

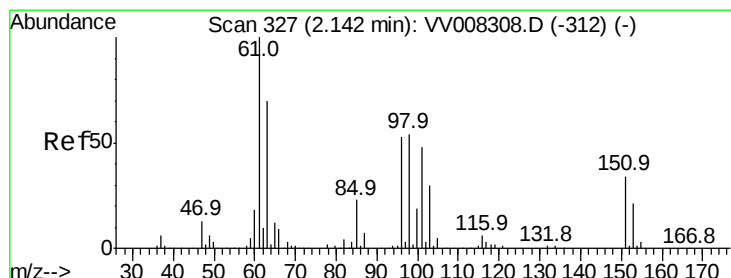
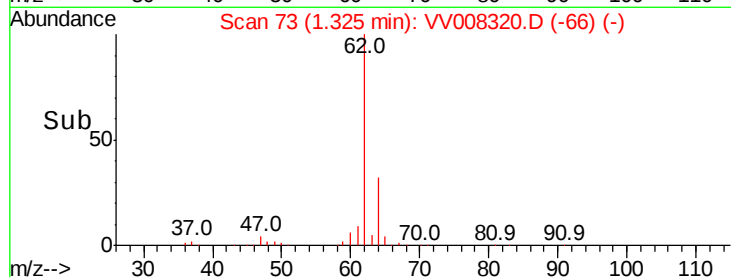
100000

50000

0

1.30 1.35

Time-->



#12

1,1-Dichloroethene

Concen: 8.194 ug/L

RT: 2.14 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV008320.D

Acq: 17 Oct 2018 02:43

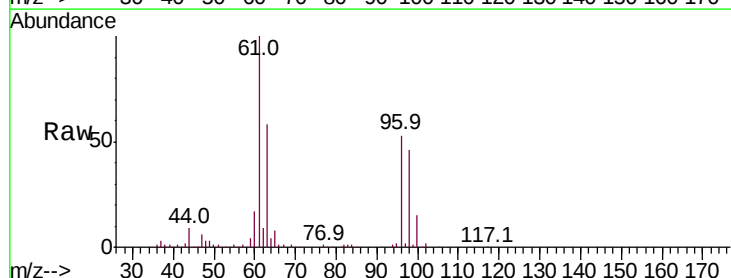
Tgt Ion: 96 Resp: 30993

Ion Ratio Lower Upper

96 100

61 189.9 129.9 241.3

63 111.0 103.0 191.4



Abundance Ion 96.00 (95.70 to 96.70): VV008320.D (-234) (-)

Ion 61.05 (60.75 to 61.75): VV008320.D (-234) (-)

Ion 63.00 (62.70 to 63.70): VV008320.D (-234) (-)

50000

40000

30000

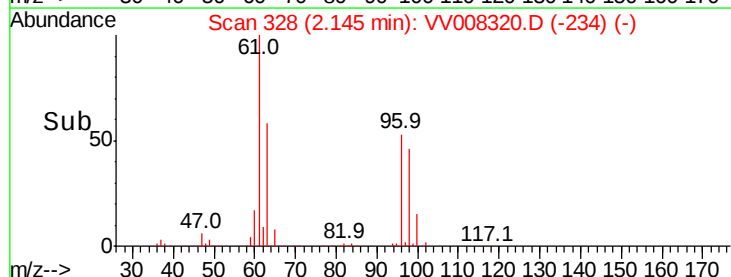
20000

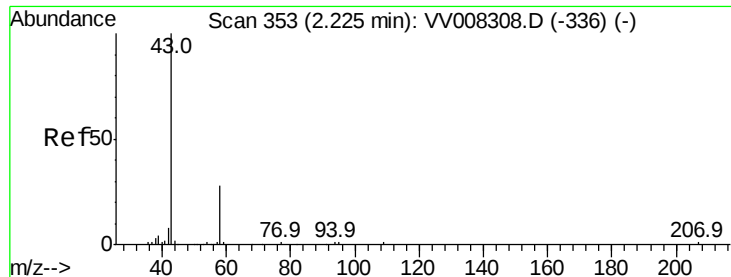
10000

0

2.10 2.15 2.20

Time-->





#13

Acetone

Concen: 2.993 ug/L

RT: 2.20 min Scan# 345

Delta R.T. -0.03 min

Lab File: VV008320.D

Acq: 17 Oct 2018 02:43

Instrument :

MSVOA_V

ClientSampleId :

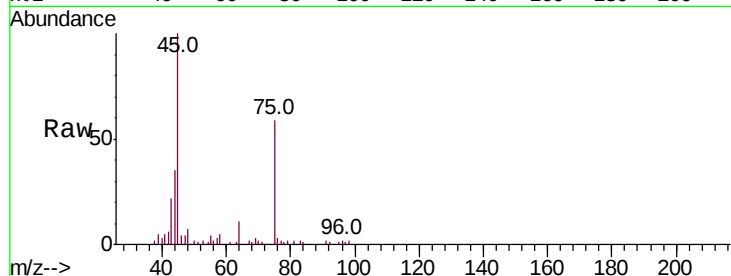
C0JB8

Tot Ion: 43 Resp: 2417

Ion Ratio Lower Upper

43 100

58 38.5 0.0 62.0



Abundance Ion 43.05 (42.75 to 43.75): VV008320.D (-336) (-)

Ion 58.05 (57.75 to 58.75): VV008320.D (-336) (-)

2.20

2000

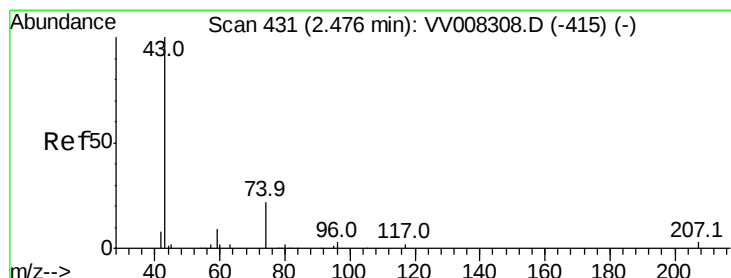
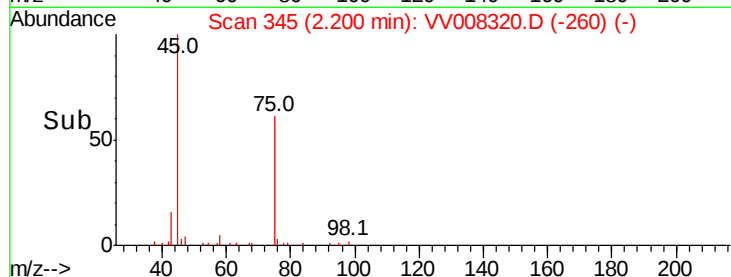
1500

1000

500

0

Time--> 2.15 2.20 2.25



#15

Methyl Acetate

Concen: 0.193 ug/L

RT: 2.48 min Scan# 431

Delta R.T. -0.00 min

Lab File: VV008320.D

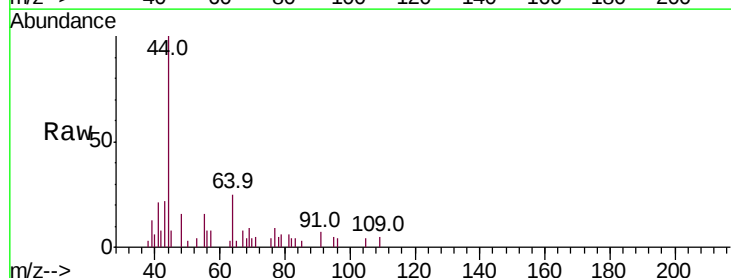
Acq: 17 Oct 2018 02:43

Tgt Ion: 43 Resp: 388

Ion Ratio Lower Upper

43 100

74 0.0 20.0 30.0#



Abundance Ion 43.05 (42.75 to 43.75): VV008320.D (-415) (-)

Ion 74.05 (73.75 to 74.75): VV008320.D (-415) (-)

2.48

800

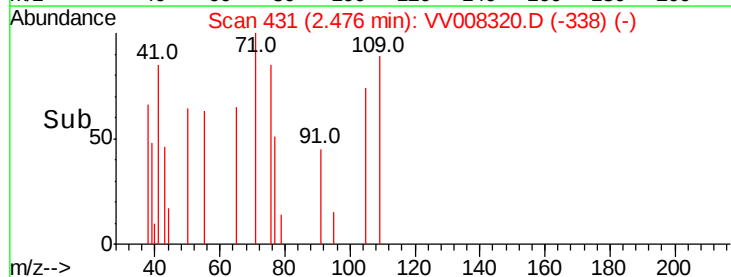
600

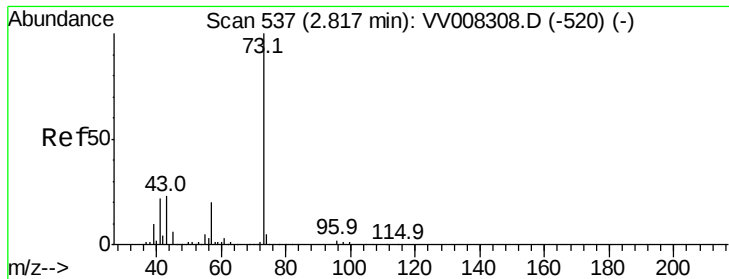
400

200

0

Time--> 2.46 2.48 2.50 2.52



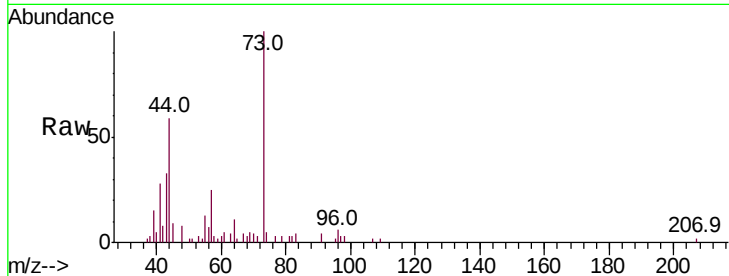


#17

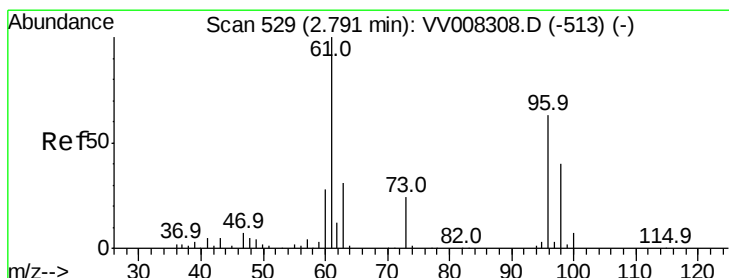
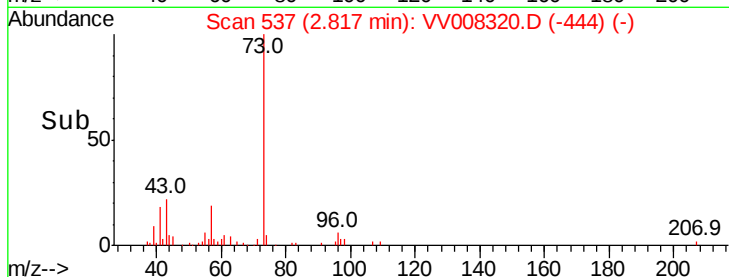
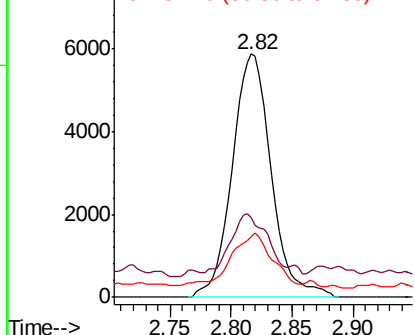
Methvl tert-butvl Ether
 Concen: 1.208 ug/L
 RT: 2.82 min Scan# 537
 Delta R.T. -0.00 min
 Lab File: VV008320.D
 Acq: 17 Oct 2018 02:43

Instrument :
 MSVOA_V
 ClientSampleId :
 C0JB8

Tot Ion	Ratio	Lower	Upper
73	100		
43	23.8	19.0	28.6
57	22.0	18.2	27.2



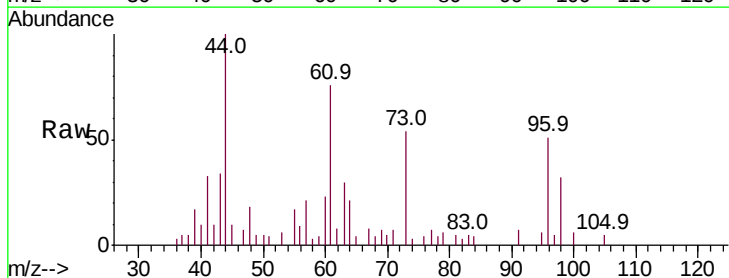
Abundance Ion 73.10 (72.80 to 73.80): VV0
 Ion 43.05 (42.75 to 43.75): VV0
 Ion 57.10 (56.80 to 57.80): VV0



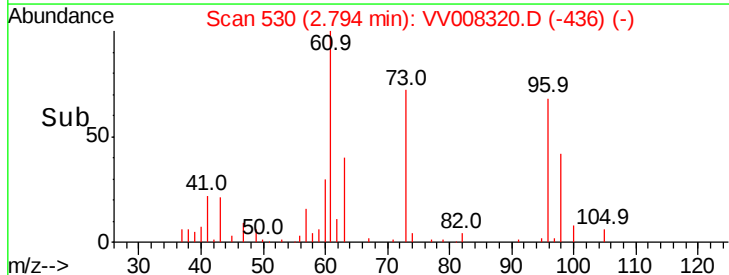
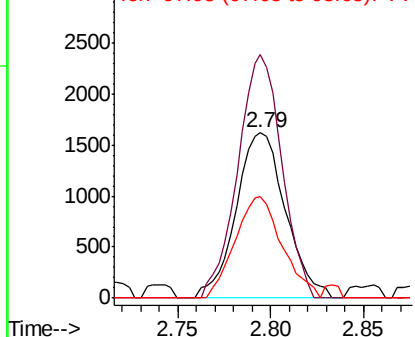
#18

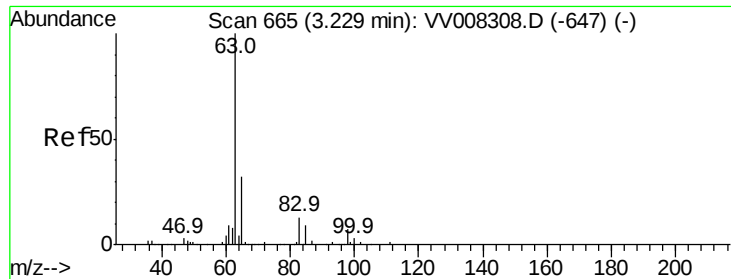
trans-1,2-Dichloroethene
 Concen: 0.738 ug/L
 RT: 2.79 min Scan# 530
 Delta R.T. 0.00 min
 Lab File: VV008320.D
 Acq: 17 Oct 2018 02:43

Tgt Ion	Ratio	Lower	Upper
96	100		
61	147.3	104.6	194.2
98	61.8	44.1	81.9



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: 4.237 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.00 min

Lab File: VV008320.D

Acq: 17 Oct 2018 02:43

Instrument :

MSVOA_V

ClientSampleId :

C0JB8

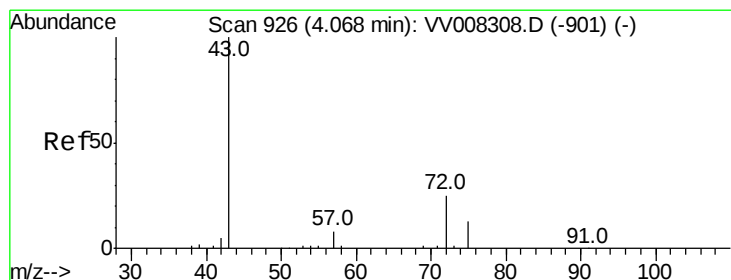
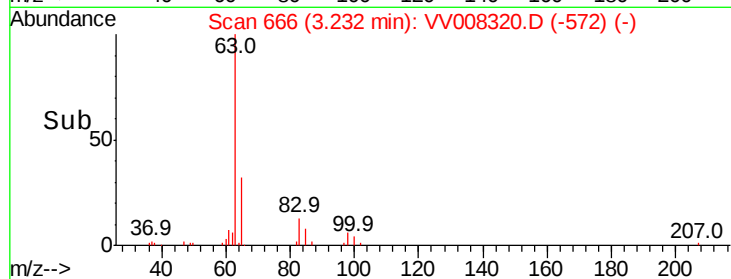
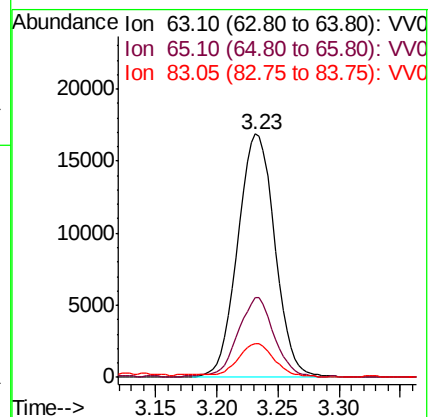
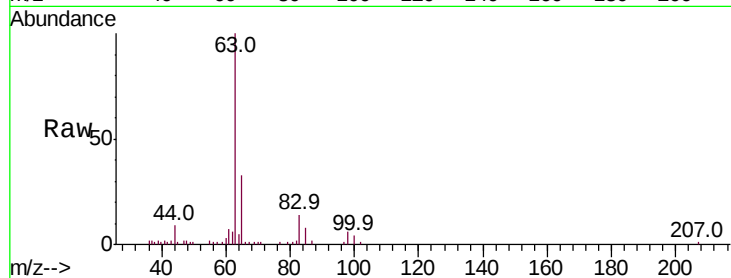
Tot Ion: 63 Resp: 35628

Ion Ratio Lower Upper

63 100

65 32.6 22.6 42.0

83 13.7 11.0 20.4



#21

2-Butanone

Concen: 1.332 ug/L

RT: 4.03 min Scan# 915

Delta R.T. -0.04 min

Lab File: VV008320.D

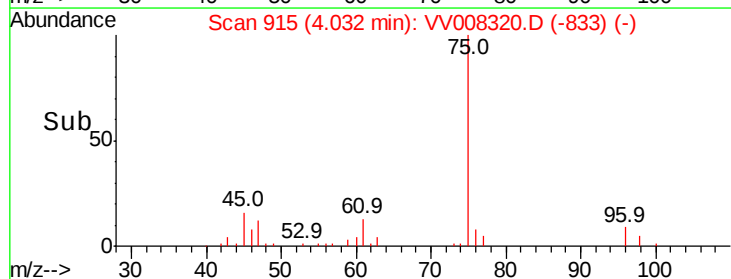
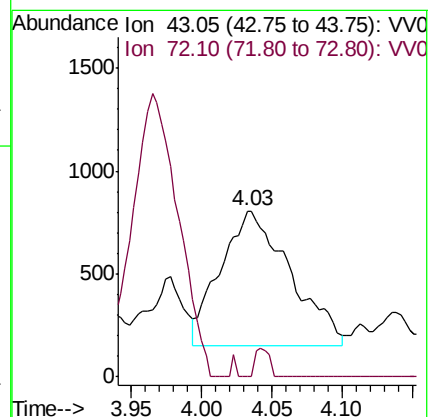
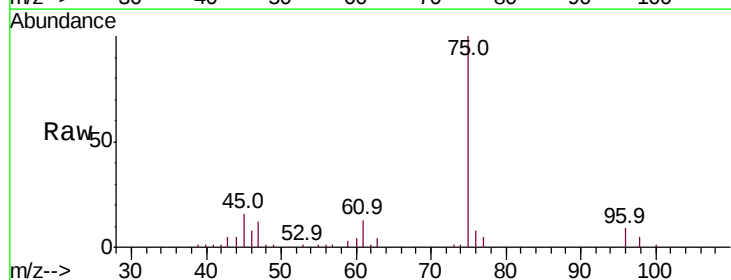
Acq: 17 Oct 2018 02:43

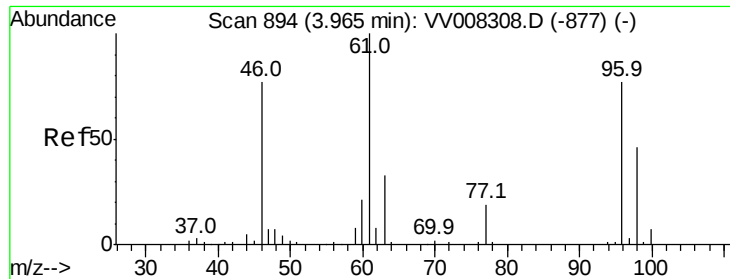
Tgt Ion: 43 Resp: 2233

Ion Ratio Lower Upper

43 100

72 4.3 12.9 38.7#

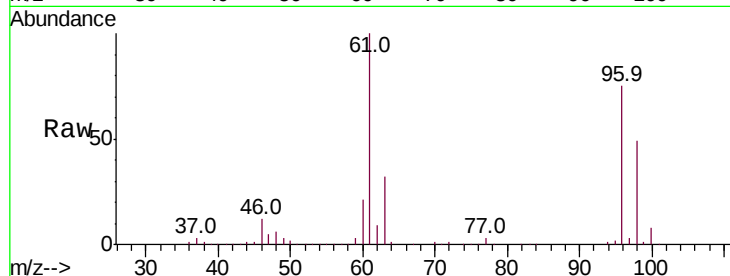




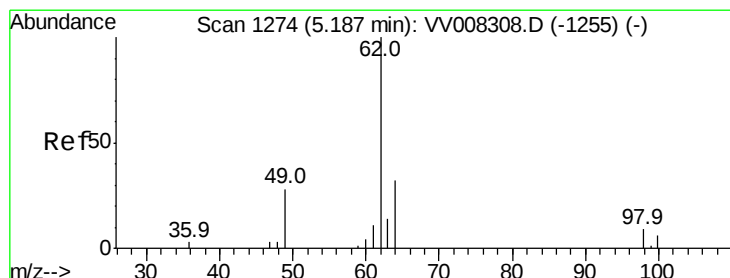
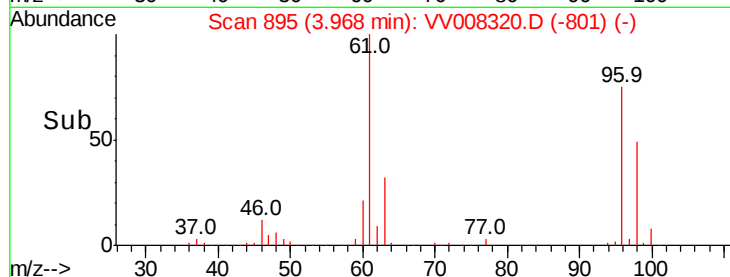
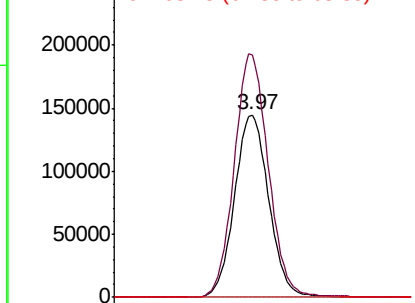
#22
 cis-1,2-Dichloroethene
 Concen: 53.028 ug/L
 RT: 3.97 min Scan# 895
 Delta R.T. 0.00 min
 Lab File: VV008320.D
 Acq: 17 Oct 2018 02:43

Instrument :
 MSVOA_V
 ClientSampleId :
 C0JB8

Tot Ion: 96 Resp: 348435
 Ion Ratio Lower Upper
 96 100
 61 133.0 93.7 174.1
 68 0.0 0.6 1.2#

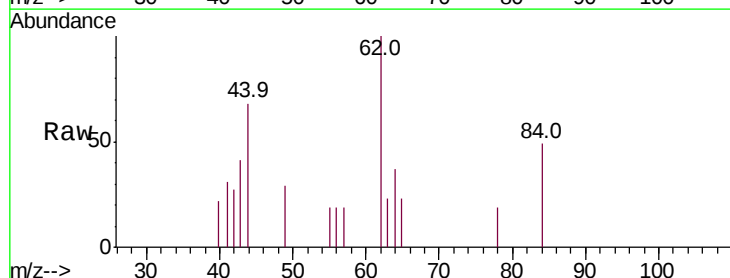


Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0

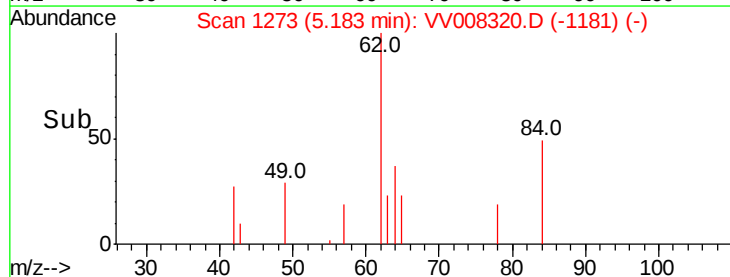
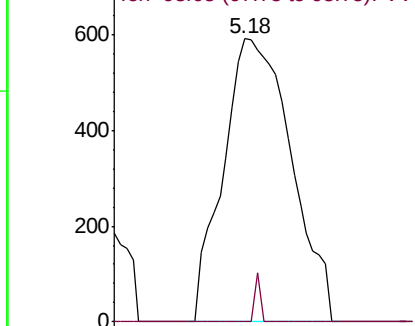


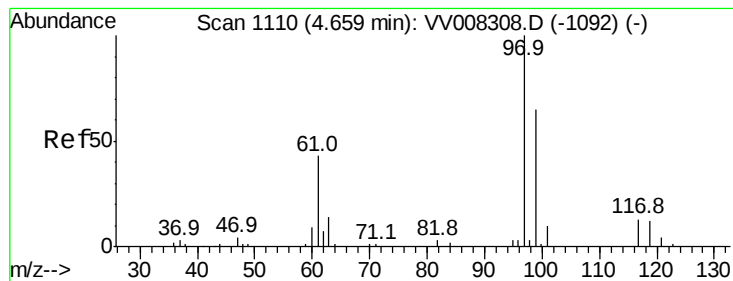
#27
 1,2-Dichloroethane
 Concen: 0.236 ug/L
 RT: 5.18 min Scan# 1273
 Delta R.T. -0.00 min
 Lab File: VV008320.D
 Acq: 17 Oct 2018 02:43

Tgt Ion: 62 Resp: 1448
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.6 11.4#



Abundance Ion 62.00 (61.70 to 62.70): VV0
 Ion 98.05 (97.75 to 98.75): VV0





#29

1,1,1-Trichloroethane

Concen: 0.108 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VV008320.D

Acq: 17 Oct 2018 02:43

Instrument :

MSVOA_V

ClientSampled :

C0JB8

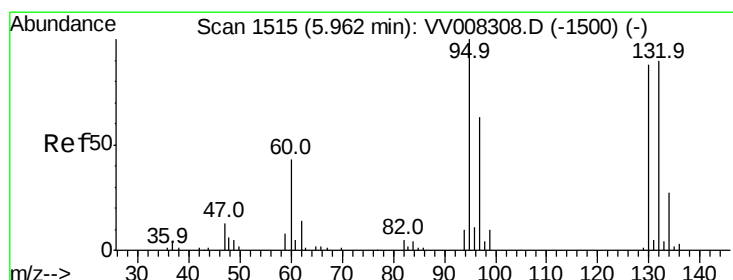
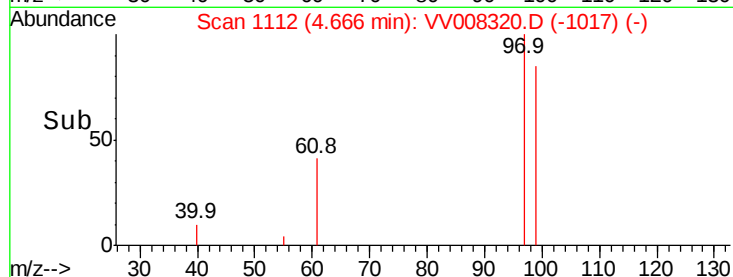
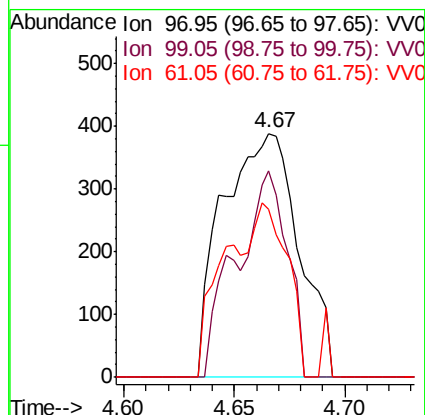
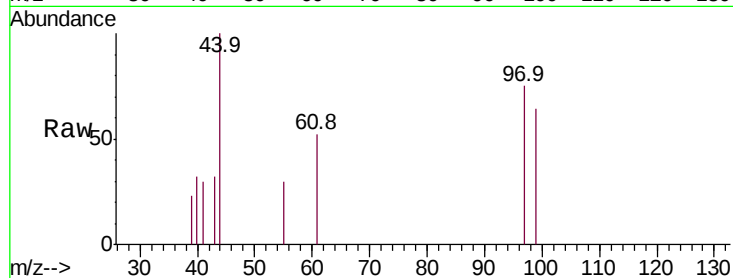
Tot Ion: 97 Resp: 929

Ion Ratio Lower Upper

97 100

99 56.9 51.6 77.4

61 36.1 37.0 55.6#



#34

Trichloroethene

Concen: 3.160 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. -0.00 min

Lab File: VV008320.D

Acq: 17 Oct 2018 02:43

Tgt Ion: 95 Resp: 20332

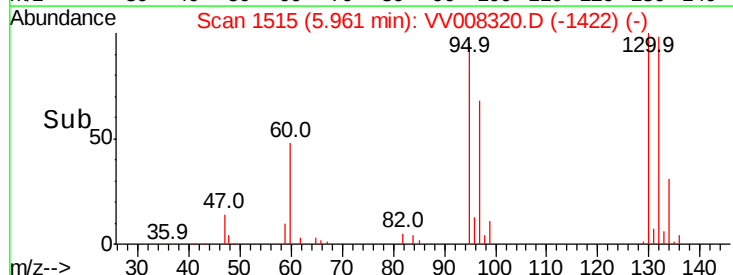
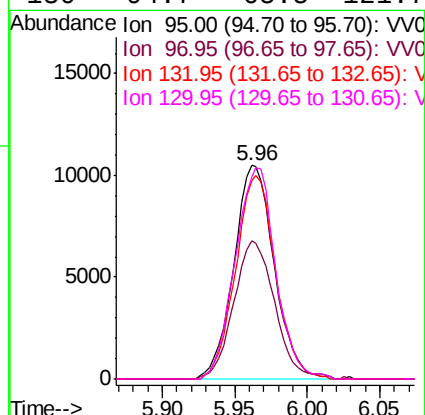
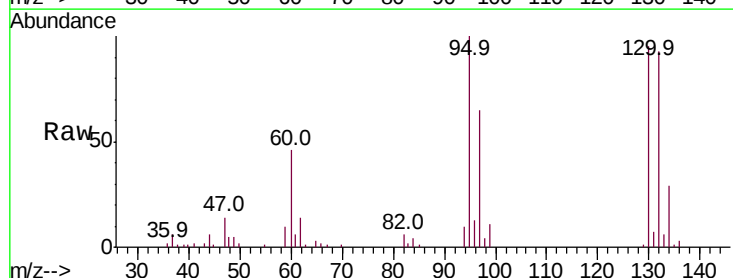
Ion Ratio Lower Upper

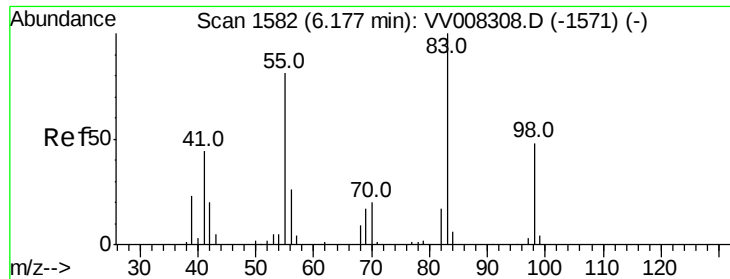
95 100

97 64.6 44.4 82.4

132 92.8 60.4 112.2

130 94.7 65.5 121.7

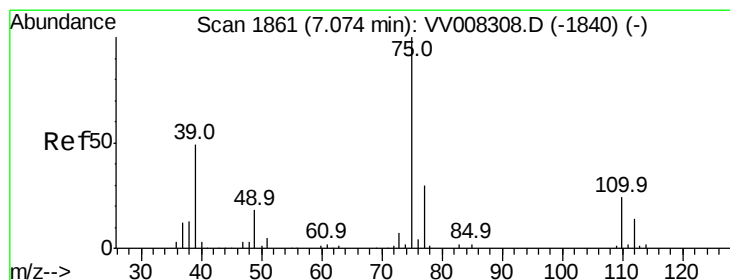
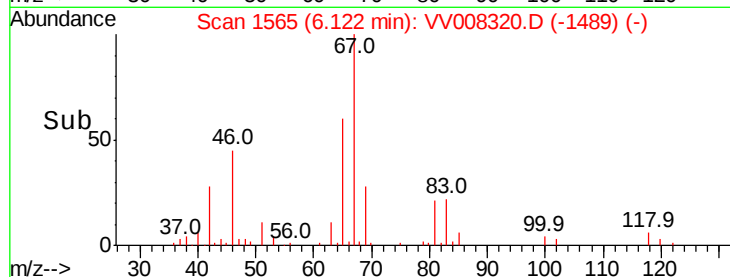
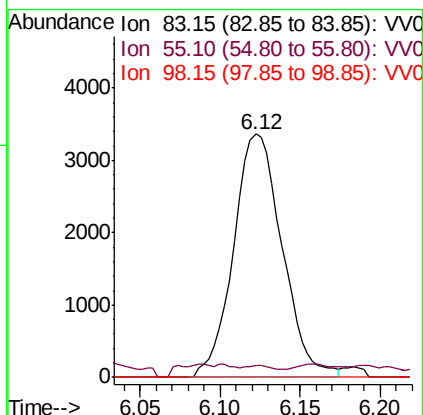
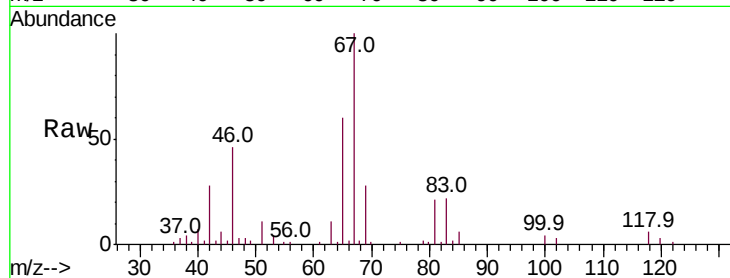




#35
Methvlcvclohexane
Concen: 0.644 ug/L
RT: 6.12 min Scan# 1565
Delta R.T. -0.05 min
Lab File: VV008320.D
Acq: 17 Oct 2018 02:43

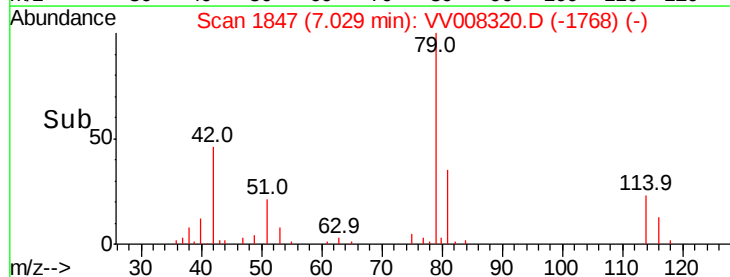
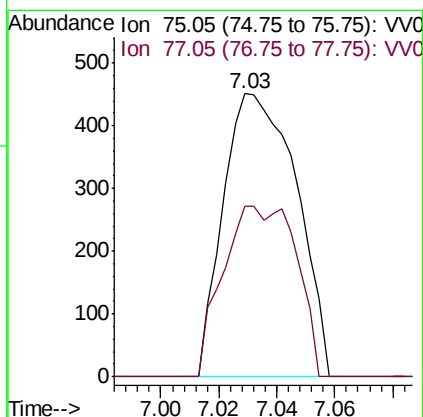
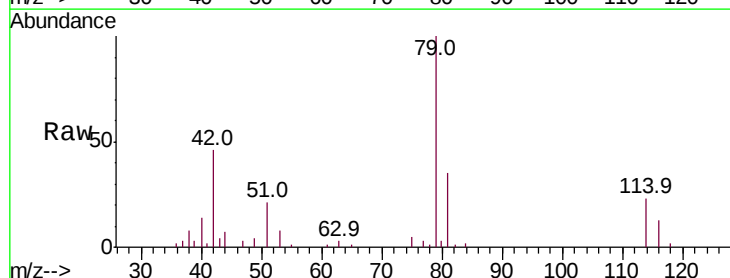
Instrument :
MSVOA_V
ClientSampleId :
C0JB8

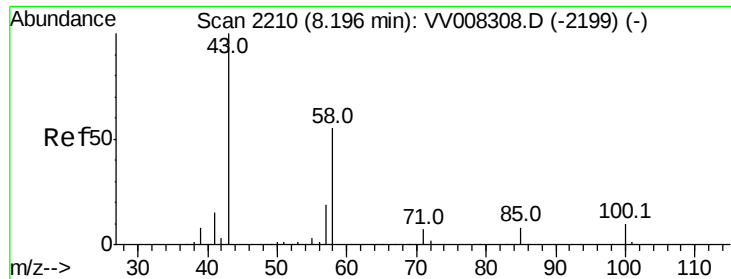
Tot Ion: 83 Resp: 6988
Ion Ratio Lower Upper
83 100
55 1.7 64.0 96.0#
98 0.0 37.0 55.4#



#39
cis-1,3-Dichloropropene
Concen: 0.088 ug/L
RT: 7.03 min Scan# 1847
Delta R.T. -0.05 min
Lab File: VV008320.D
Acq: 17 Oct 2018 02:43

Tgt Ion: 75 Resp: 788
Ion Ratio Lower Upper
75 100
77 60.1 22.3 41.3#

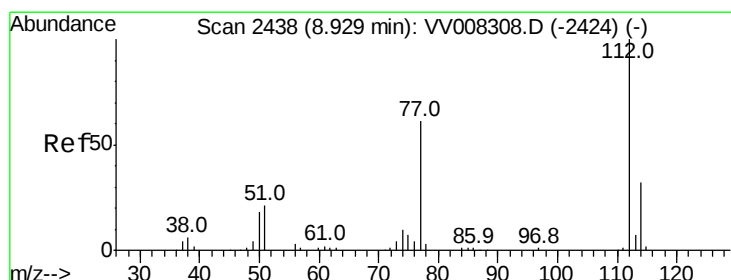
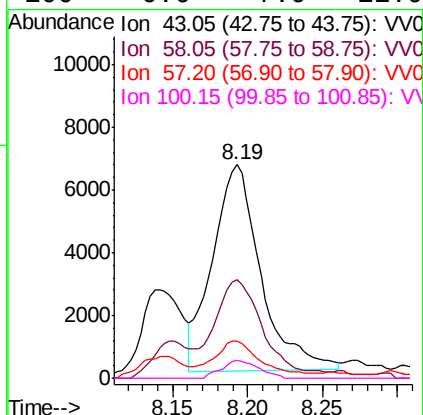
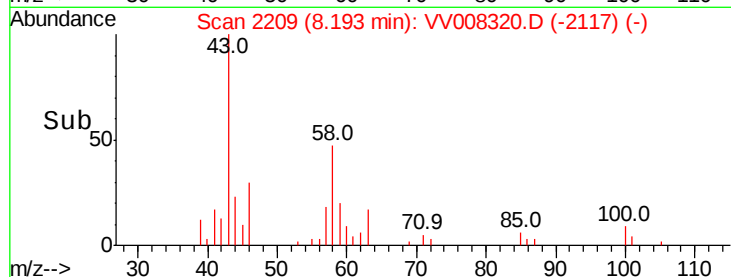
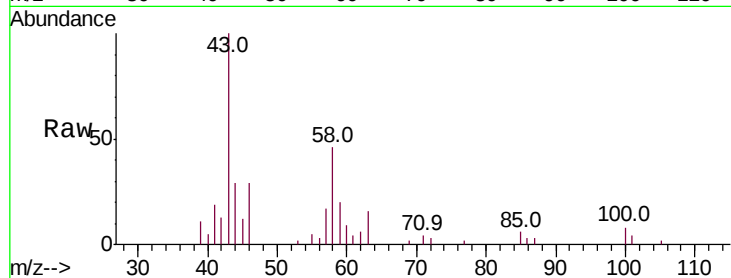




#48
2-Hexanone
Concen: 5.303 ug/L
RT: 8.19 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VV008320.D
Acq: 17 Oct 2018 02:43

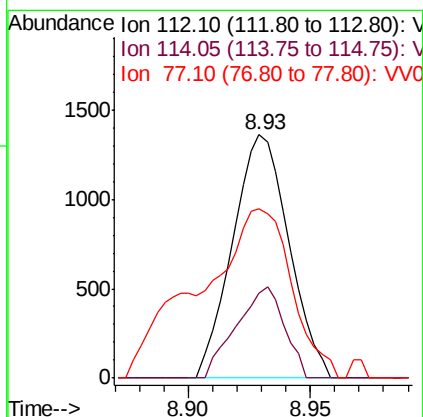
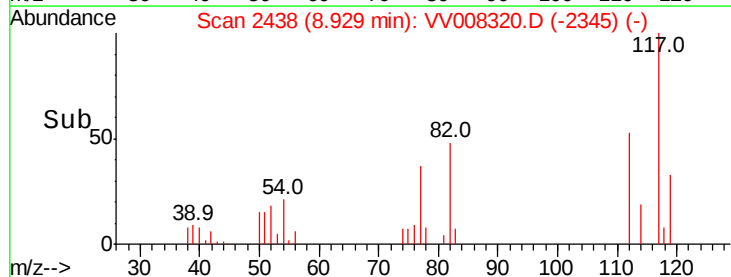
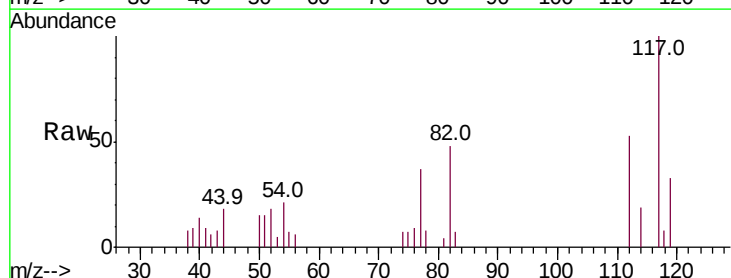
Instrument :
MSVOA_V
ClientSampleId :
C0JB8

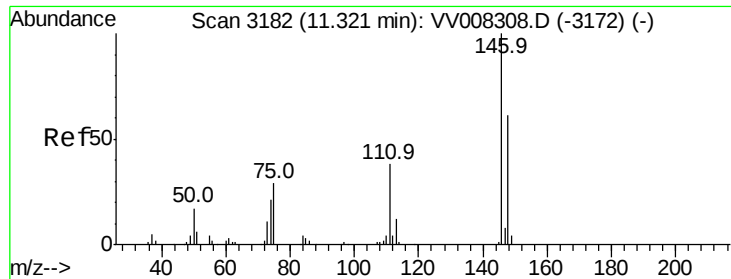
Tot Ion: 43 Resp: 14868
Ion Ratio Lower Upper
43 100
58 43.8 45.0 67.4#
57 15.0 14.4 21.6
100 6.6 7.9 11.9#



#51
Chlorobenzene
Concen: 0.151 ug/L
RT: 8.93 min Scan# 2438
Delta R.T. -0.00 min
Lab File: VV008320.D
Acq: 17 Oct 2018 02:43

Tgt Ion: 112 Resp: 2173
Ion Ratio Lower Upper
112 100
114 34.8 21.6 40.0
77 69.8 49.7 74.5

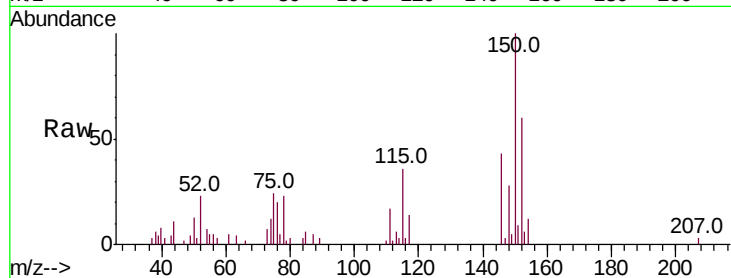




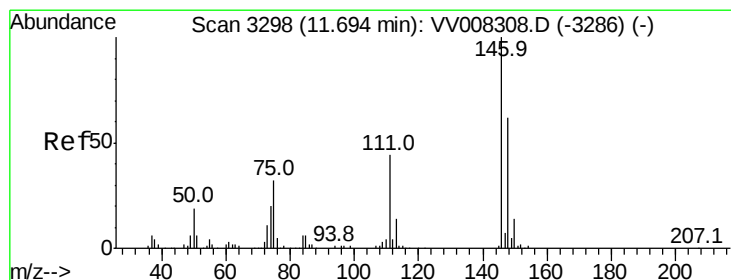
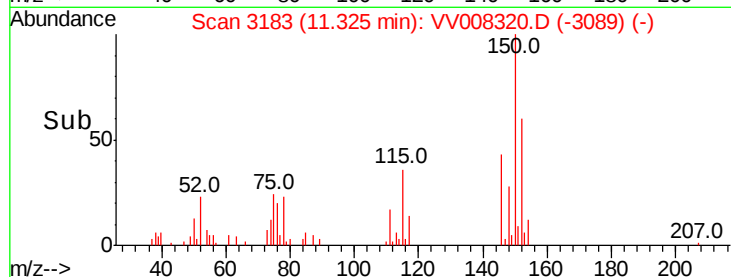
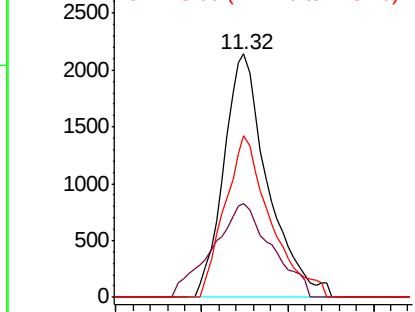
#63
1,4-Dichlorobenzene
Concen: 0.413 ug/L
RT: 11.32 min Scan# 3183
Delta R.T. 0.00 min
Lab File: VV008320.D
Acq: 17 Oct 2018 02:43

Instrument :
MSVOA_V
ClientSampleId :
C0JB8

Tot Ion:146 Resp: 3800
Ion Ratio Lower Upper
146 100
111 38.7 30.0 55.6
148 66.3 44.5 82.7

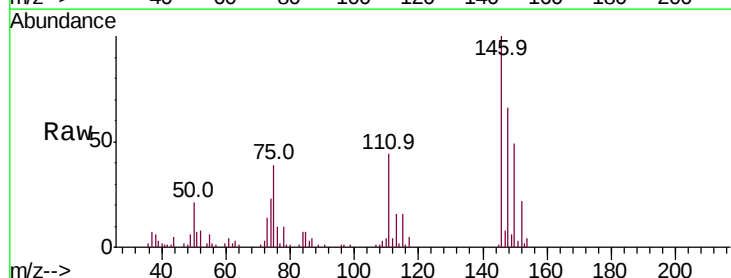


Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#65
1,2-Dichlorobenzene
Concen: 2.986 ug/L
RT: 11.70 min Scan# 3299
Delta R.T. 0.00 min
Lab File: VV008320.D
Acq: 17 Oct 2018 02:43

Tgt Ion:146 Resp: 26606
Ion Ratio Lower Upper
146 100
111 44.1 35.5 53.3
148 65.7 51.5 77.3



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

