

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101618\
 Data File : VV008315.D
 Acq On : 17 Oct 2018 00:20
 Operator : SY/MD
 Sample : J5463-02
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 C0JB3

Quant Time: Oct 17 05:05:51 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	74963	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	66893	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	26270	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	20746	4.90	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.00%
7) Chloroethane-d5	1.58	69	15501	4.64	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.80%
11) 1,1-Dichloroethene-d2	2.14	63	33350	4.10	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	82.00%
20) 2-Butanone-d5	3.96	46	68717	48.36	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.72%
24) Chloroform-d	4.41	84	41049	4.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.60%
26) 1,2-Dichloroethane-d4	5.09	65	22116	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.20%
32) Benzene-d6	5.10	84	88055	4.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.60%
36) 1,2-Dichloropropane-d6	6.12	67	30012	4.64	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.80%
41) Toluene-d8	7.36	98	77565	4.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.20%
43) trans-1,3-Dichloropropene-	7.67	79	10383	3.87	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	77.40%
46) 2-Hexanone-d5	8.14	63	40734	43.32	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	86.64%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	17841	4.15	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	83.00%
64) 1,2-Dichlorobenzene-d4	11.68	152	22830	4.58	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	1624	0.281	ug/L 90
3) Chloromethane	1.25	50	935	0.159	ug/L 89
5) Vinyl chloride	1.33	62	11563	2.073	ug/L # 68
8) Chloroethane	1.61	64	278	0.096	ug/L # 42
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	950	0.245	ug/L # 66
12) 1,1-Dichloroethene	2.15	96	4473	1.242	ug/L # 4
13) Acetone	2.20	43	1783	2.319	ug/L 75
15) Methyl Acetate	2.47	43	251	0.131	ug/L # 50
17) Methyl tert-butyl Ether	2.81	73	1698	0.166	ug/L # 69
18) trans-1,2-Dichloroethene	2.79	96	1069	0.276	ug/L 98
19) 1,1-Dichloroethane	3.24	63	3234	0.404	ug/L 90
22) cis-1,2-Dichloroethene	3.97	96	112219	17.939	ug/L # 100
25) Chloroform	4.44	83	2153	0.219	ug/L 92
29) 1,1,1-Trichloroethane	4.66	97	1790	0.215	ug/L 98
34) Trichloroethene	5.96	95	167498	26.813	ug/L 97
35) Methylcyclohexane	6.13	83	6383	0.606	ug/L # 18
37) 1,2-Dichloropropane	6.12	63	3141	0.516	ug/L # 90

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101618\
Data File : VV008315.D
Acq On : 17 Oct 2018 00:20
Operator : SY/MD
Sample : J5463-02
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
C0JB3

Quant Time: Oct 17 05:05:51 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

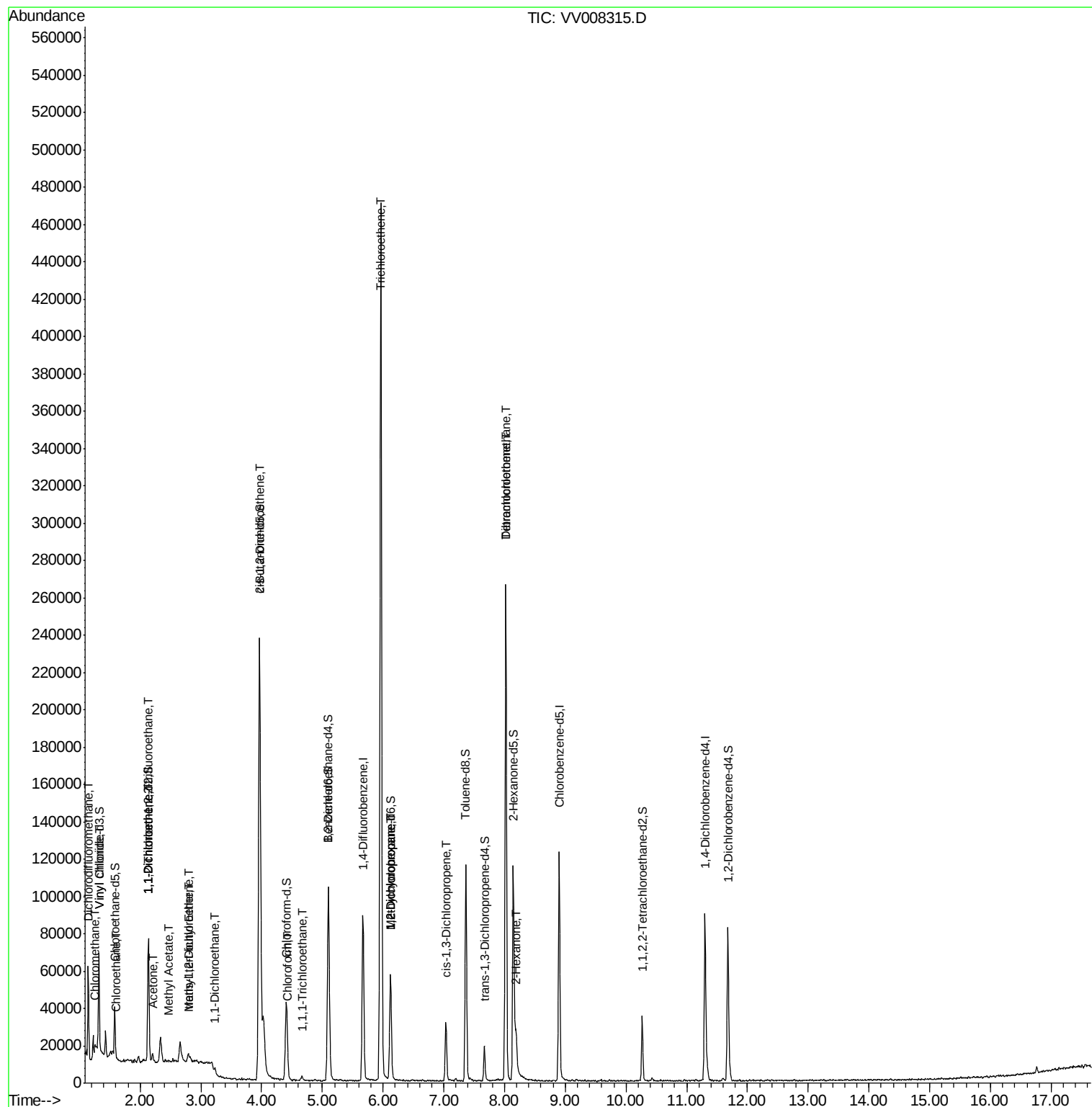
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.04	75	813	0.094	ug/L #	71
47) Tetrachloroethene	8.02	164	55563	14.196	ug/L	96
48) 2-Hexanone	8.19	43	14692	5.396	ug/L #	90
49) Dibromochloromethane	8.02	129	55670	12.935	ug/L #	10

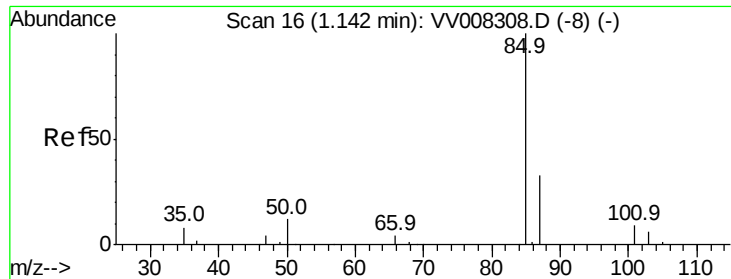
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV101618\
Data File : VV008315.D
Acq On : 17 Oct 2018 00:20
Operator : SY/MD
Sample : J5463-02
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
C0JB3

Quant Time: Oct 17 05:05:51 2018
Quant Method : Z:\V0ASRV\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





#2

Dichlorodifluoromethane

Concen: 0.281 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV008315.D

Acq: 17 Oct 2018 00:20

Instrument :

MSVOA_V

ClientSampleId :

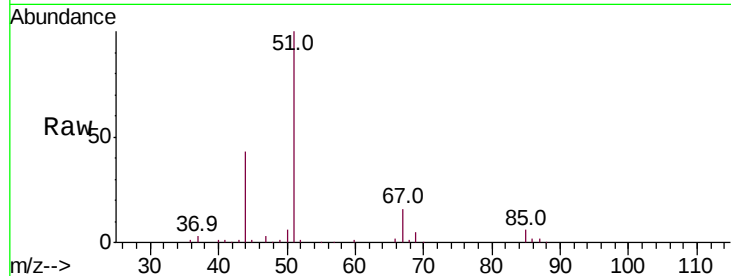
C0JB3

Tot Ion: 85 Resp: 1624

Ion Ratio Lower Upper

85 100

87 26.5 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VV008308.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV008308.D (-8) (-)

1.14

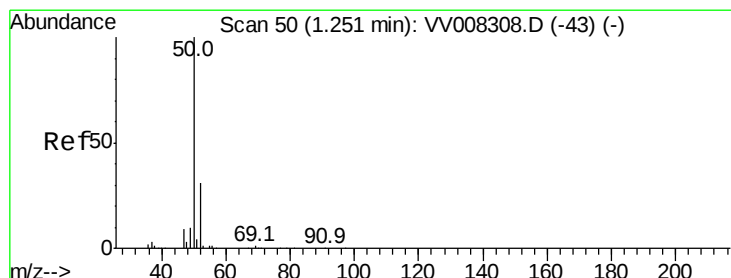
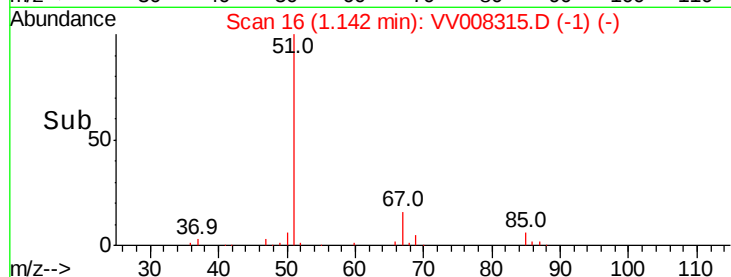
1500

1000

500

0

Time-->



#3

Chloromethane

Concen: 0.159 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV008315.D

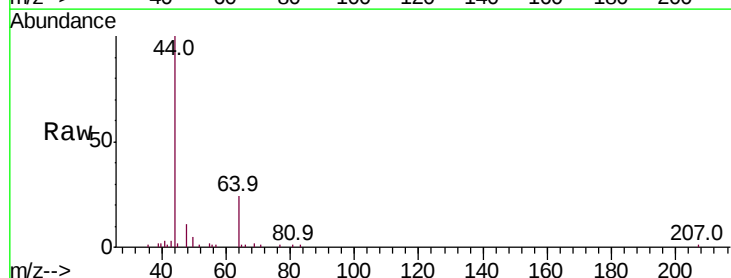
Acq: 17 Oct 2018 00:20

Tgt Ion: 50 Resp: 935

Ion Ratio Lower Upper

50 100

52 27.2 23.7 43.9



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

Ion 52.05 (51.75 to 52.75): VV008308.D (-43) (-)

1.25

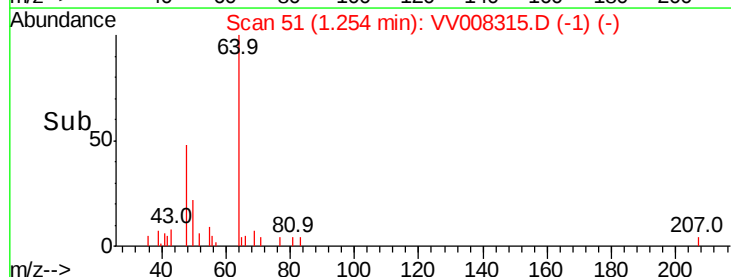
600

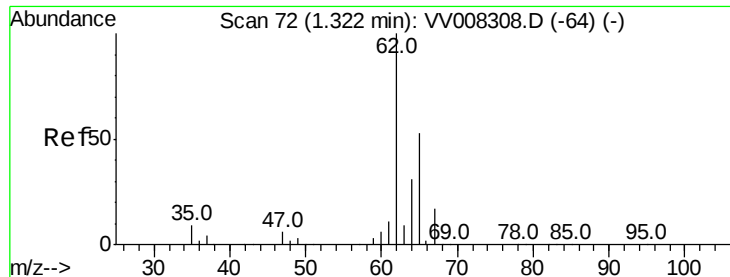
400

200

0

Time-->





#5

Vinyl chloride

Concen: 2.073 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV008315.D

Acq: 17 Oct 2018 00:20

Instrument :

MSVOA_V

ClientSampleId :

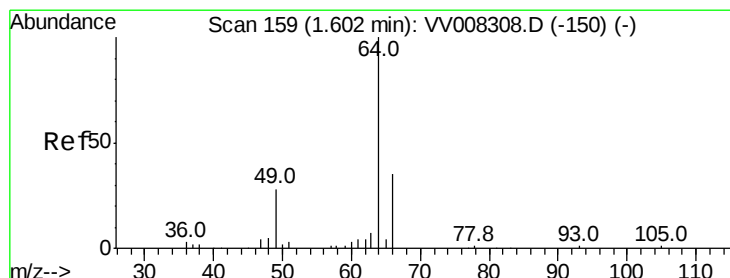
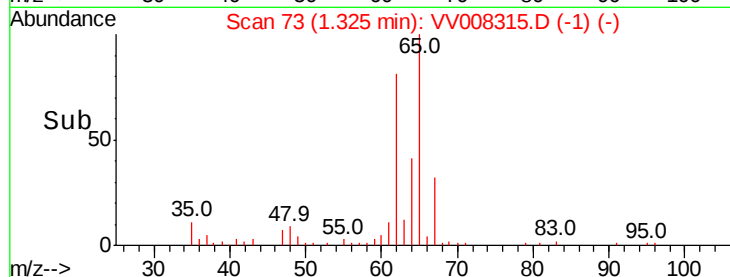
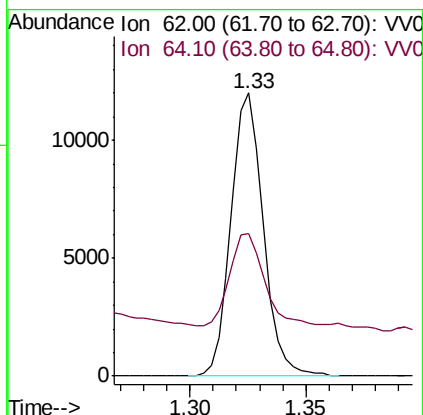
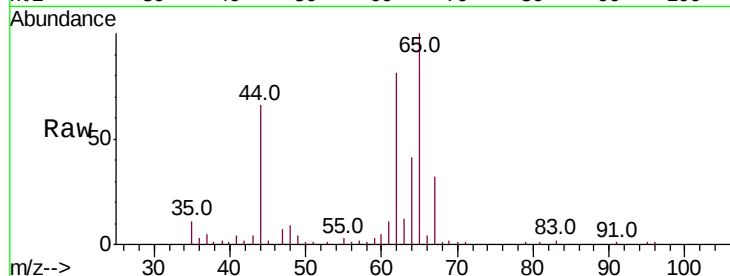
C0JB3

Tot Ion: 62 Resp: 11563

Ion Ratio Lower Upper

62 100

64 50.5 22.9 42.5#



#8

Chloroethane

Concen: 0.096 ug/L

RT: 1.61 min Scan# 163

Delta R.T. 0.01 min

Lab File: VV008315.D

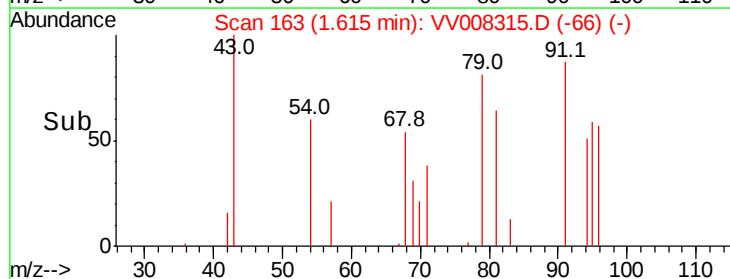
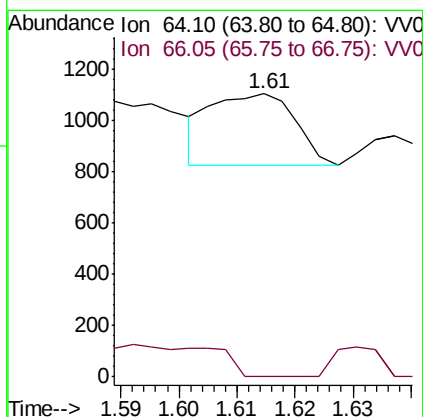
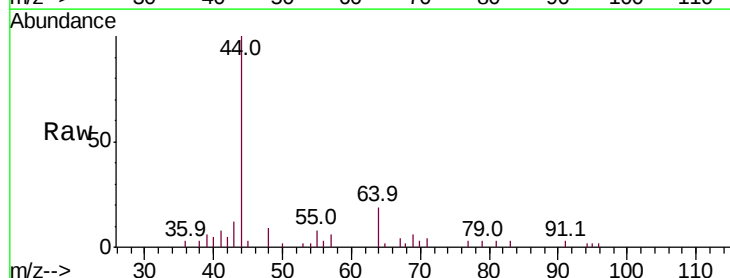
Acq: 17 Oct 2018 00:20

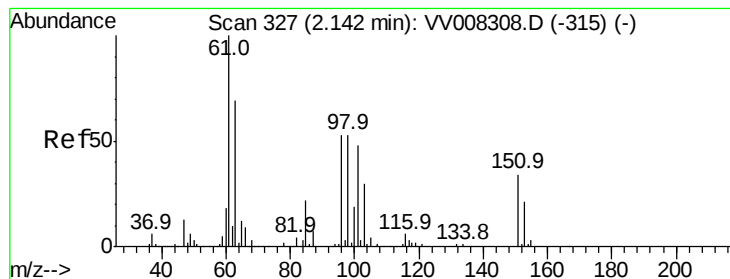
Tgt Ion: 64 Resp: 278

Ion Ratio Lower Upper

64 100

66 0.0 22.5 41.9#





#10

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

Concen: 0.245 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV008315.D

Acq: 17 Oct 2018 00:20

Instrument :

MSVOA_V

ClientSampleId :

C0JB3

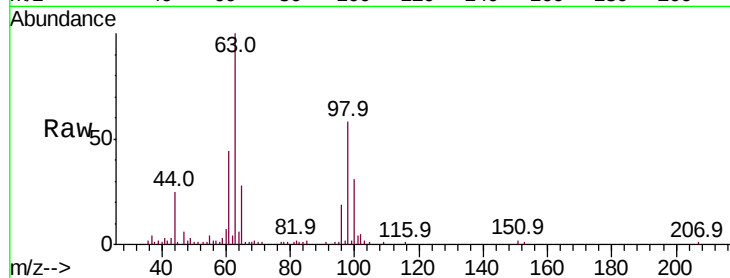
Tot Ion: 101 Resp: 950

Ion Ratio Lower Upper

101 100

85 80.9 37.4 56.2#

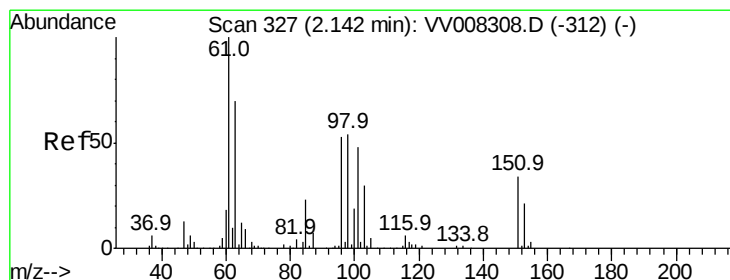
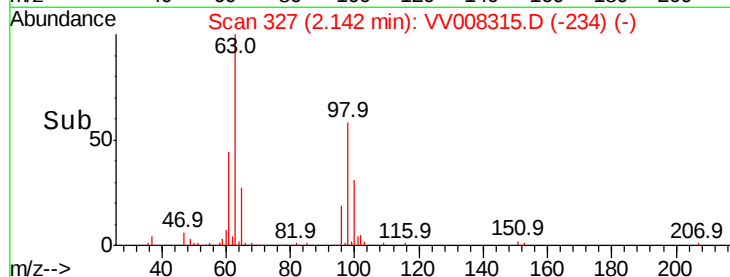
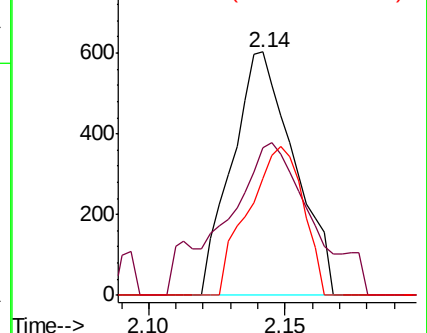
151 54.2 59.0 88.6#



Abundance Ion 101.00 (100.70 to 101.70): VV008315.D (-234) (-)

Ion 85.00 (84.70 to 85.70): VV008315.D (-234) (-)

Ion 151.00 (150.70 to 151.70): VV008315.D (-234) (-)



#12

1,1-Dichloroethene

Concen: 1.242 ug/L

RT: 2.15 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV008315.D

Acq: 17 Oct 2018 00:20

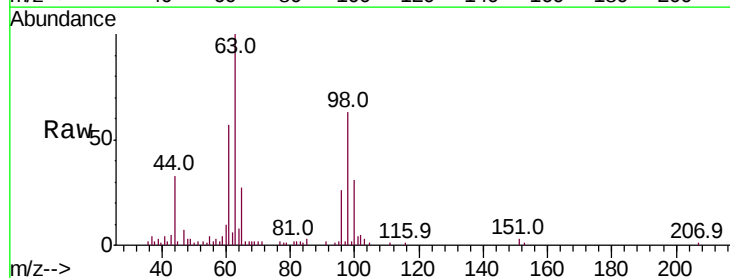
Tgt Ion: 96 Resp: 4473

Ion Ratio Lower Upper

96 100

61 218.9 129.9 241.3

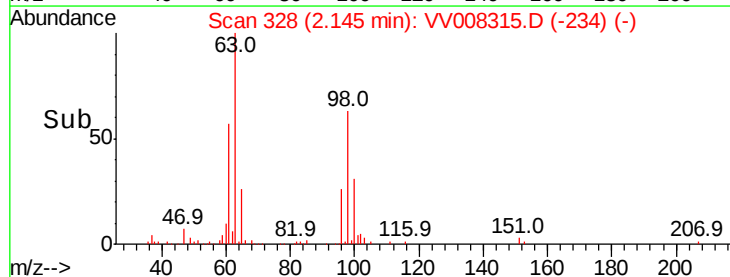
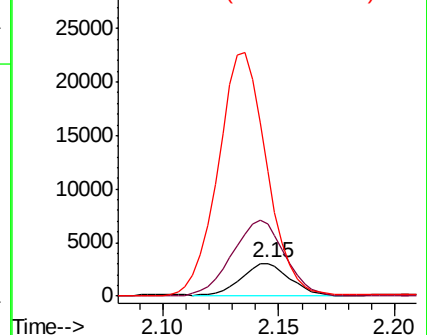
63 382.0 103.0 191.4#

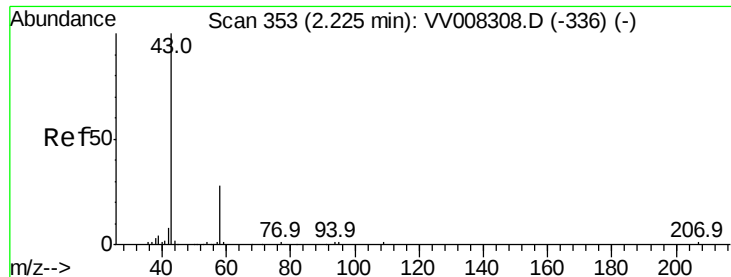


Abundance Ion 96.00 (95.70 to 96.70): VV008315.D (-234) (-)

Ion 61.05 (60.75 to 61.75): VV008315.D (-234) (-)

Ion 63.00 (62.70 to 63.70): VV008315.D (-234) (-)





#13

Acetone

Concen: 2.319 ug/L

RT: 2.20 min Scan# 346

Delta R.T. -0.02 min

Lab File: VV008315.D

Acq: 17 Oct 2018 00:20

Instrument :

MSVOA_V

ClientSampleId :

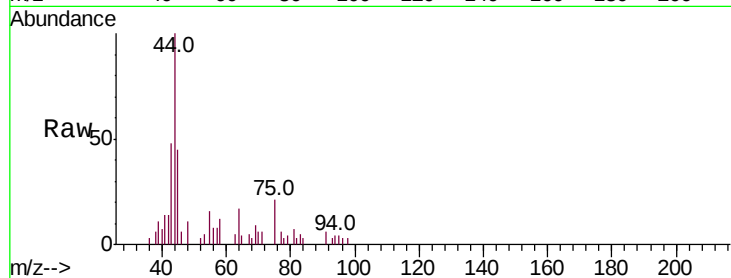
C0JB3

Tot Ion: 43 Resp: 1783

Ion Ratio Lower Upper

43 100

58 44.5 0.0 62.0



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

2.20

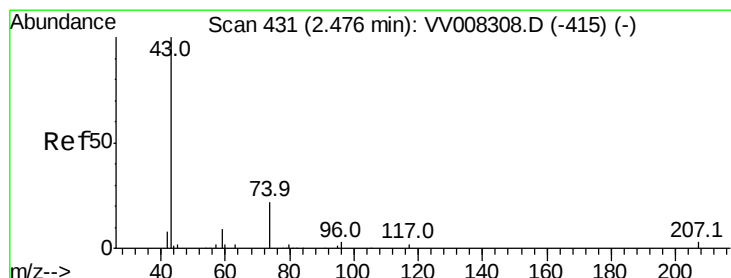
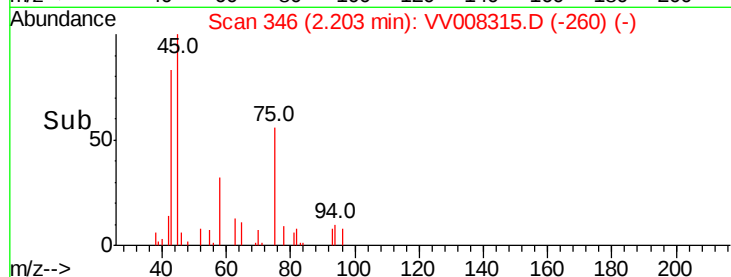
1500

1000

500

0

Time--> 2.15 2.20 2.25



#15

Methyl Acetate

Concen: 0.131 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.01 min

Lab File: VV008315.D

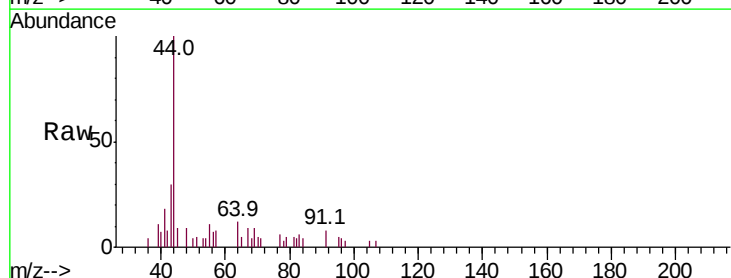
Acq: 17 Oct 2018 00:20

Tgt Ion: 43 Resp: 251

Ion Ratio Lower Upper

43 100

74 0.0 20.0 30.0#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

2.47

1200

1000

800

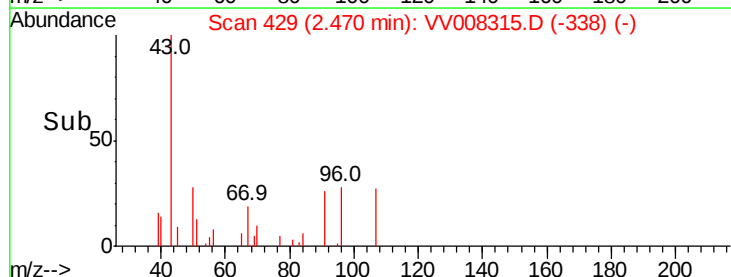
600

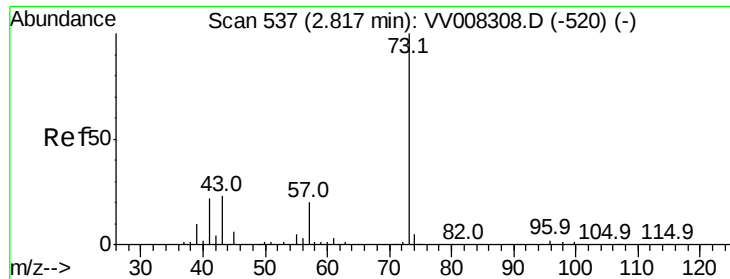
400

200

0

Time--> 2.46 2.47 2.48

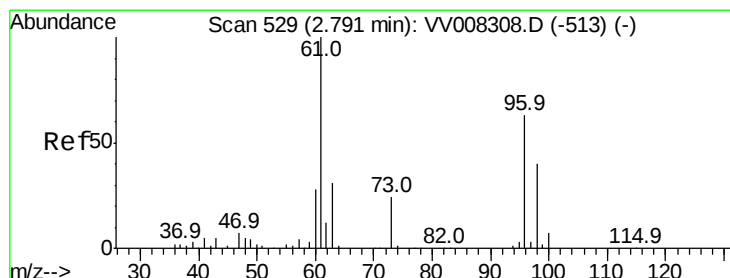
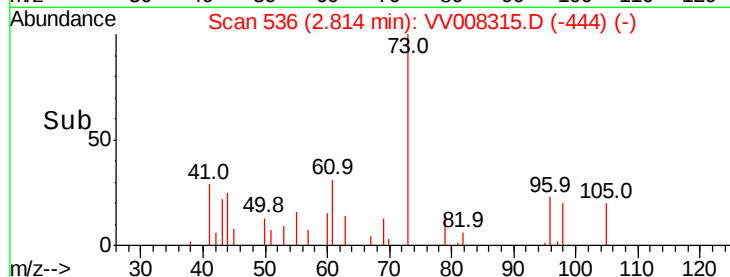
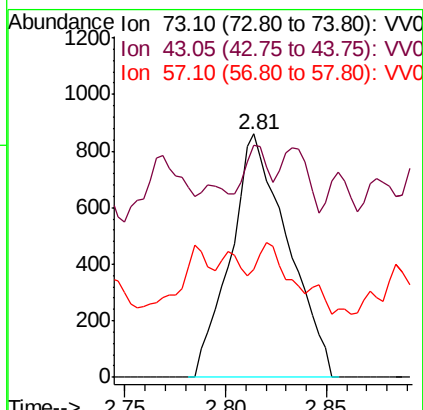
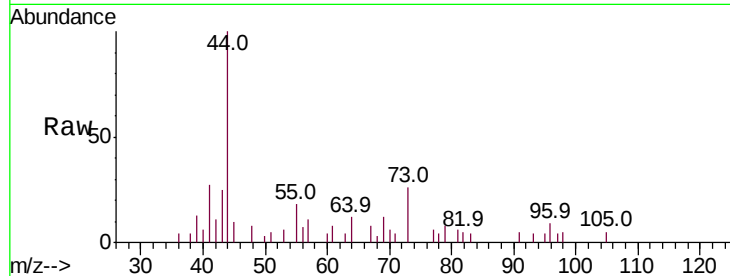




#17
Methvl tert-butvl Ether
Concen: 0.166 ug/L
RT: 2.81 min Scan# 536
Delta R.T. -0.00 min
Lab File: VV008315.D
Acq: 17 Oct 2018 00:20

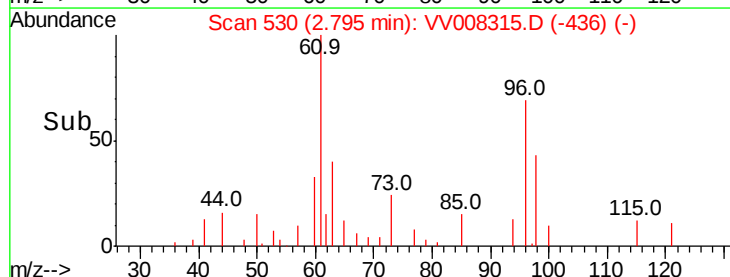
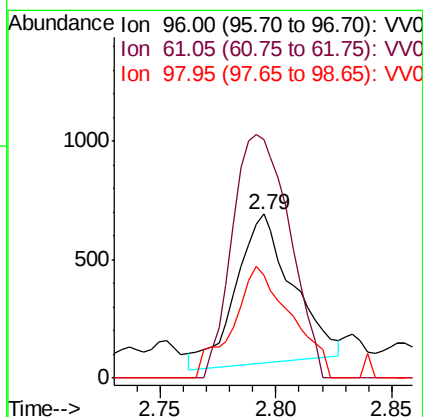
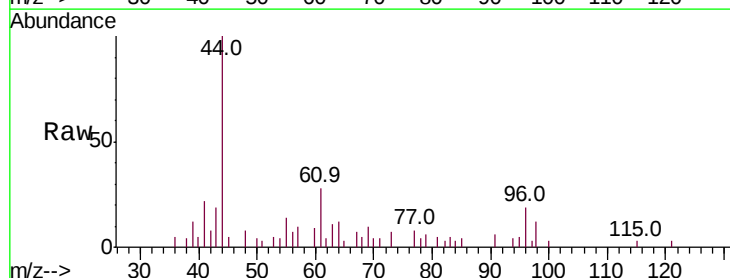
Instrument :
MSVOA_V
ClientSampled :
C0JB3

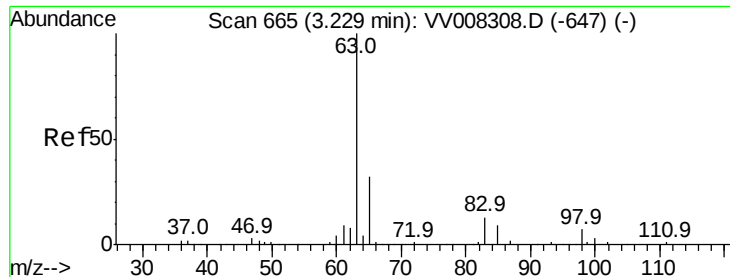
Tot Ion: 73 Resp: 1698
Ion Ratio Lower Upper
73 100
43 7.2 19.0 28.6#
57 9.4 18.2 27.2#



#18
trans-1,2-Dichloroethene
Concen: 0.276 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV008315.D
Acq: 17 Oct 2018 00:20

Tgt Ion: 96 Resp: 1069
Ion Ratio Lower Upper
96 100
61 145.2 104.6 194.2
98 63.0 44.1 81.9





#19

1,1-Dichloroethane

Concen: 0.404 ug/L

RT: 3.24 min Scan# 667

Delta R.T. 0.01 min

Lab File: VV008315.D

Acq: 17 Oct 2018 00:20

Instrument :

MSVOA_V

ClientSampleId :

C0JB3

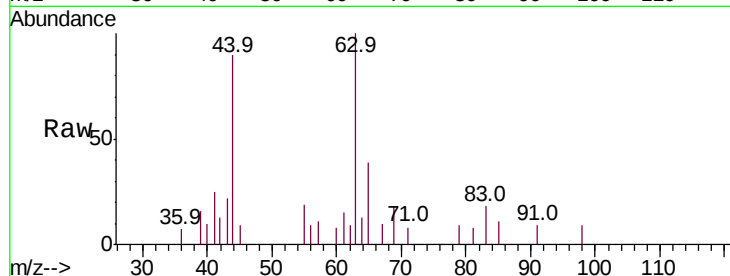
Tot Ion: 63 Resp: 3234

Ion Ratio Lower Upper

63 100

65 39.3 22.6 42.0

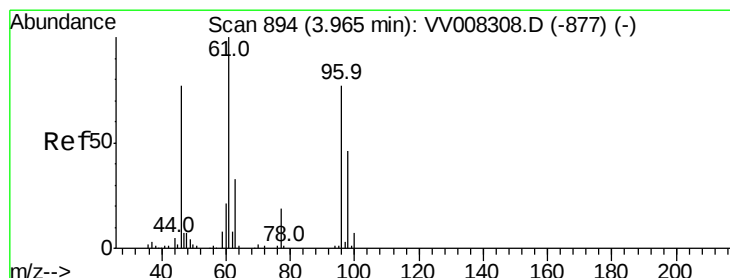
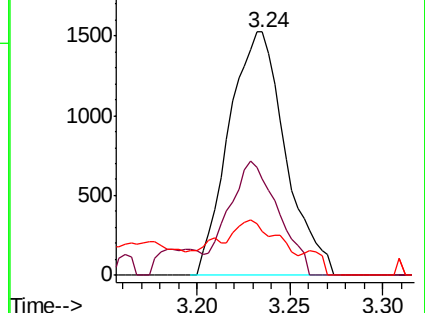
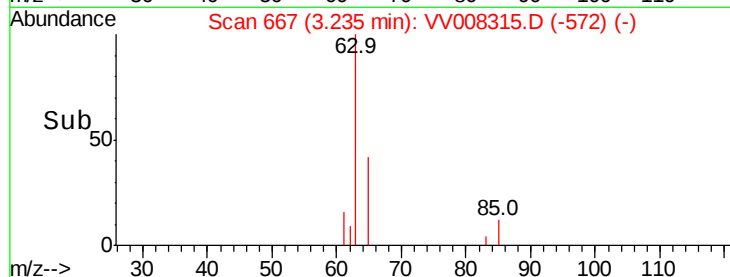
83 18.1 11.0 20.4



Abundance Ion 63.10 (62.80 to 63.80): VV008315.D (-572) (-)

Ion 65.10 (64.80 to 65.80): VV008315.D (-572) (-)

Ion 83.05 (82.75 to 83.75): VV008315.D (-572) (-)



#22

cis-1,2-Dichloroethene

Concen: 17.939 ug/L

RT: 3.97 min Scan# 895

Delta R.T. 0.00 min

Lab File: VV008315.D

Acq: 17 Oct 2018 00:20

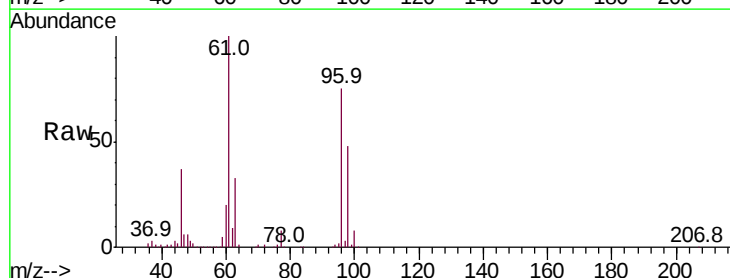
Tgt Ion: 96 Resp: 112219

Ion Ratio Lower Upper

96 100

61 134.1 93.7 174.1

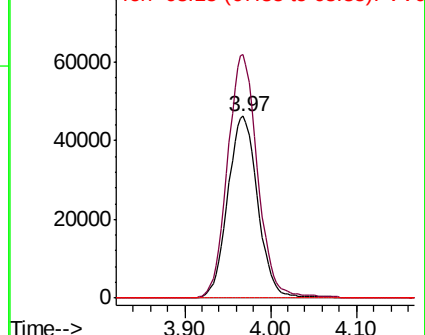
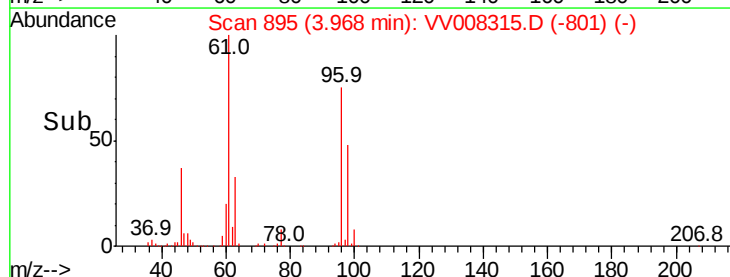
68 0.0 0.6 1.2#

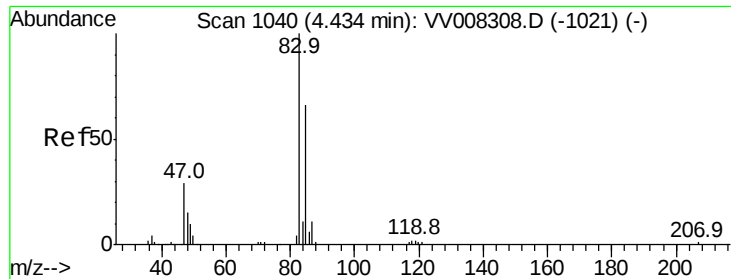


Abundance Ion 96.00 (95.70 to 96.70): VV008315.D (-801) (-)

Ion 61.05 (60.75 to 61.75): VV008315.D (-801) (-)

Ion 68.15 (67.85 to 68.85): VV008315.D (-801) (-)





#25

Chloroform

Concen: 0.219 ug/L

RT: 4.44 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VV008315.D

Acq: 17 Oct 2018 00:20

Instrument :

MSVOA_V

ClientSampled :

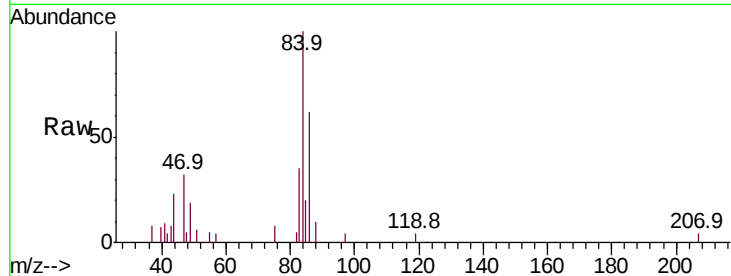
C0JB3

Tot Ion: 83 Resp: 2153

Ion Ratio Lower Upper

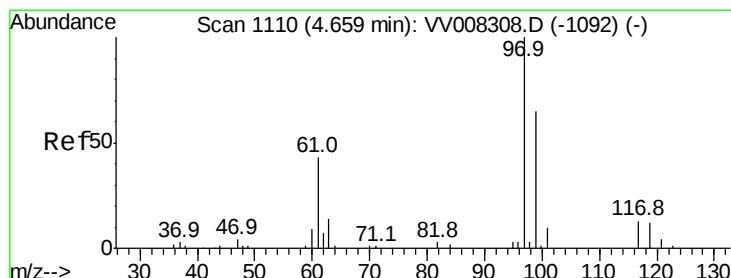
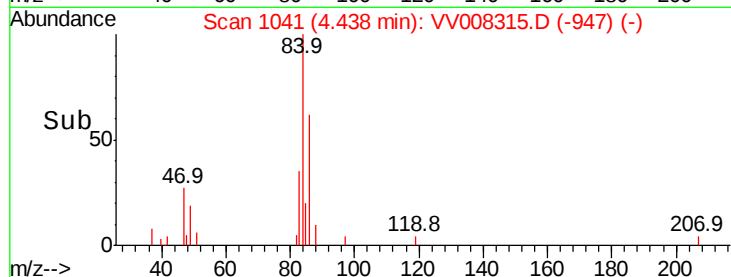
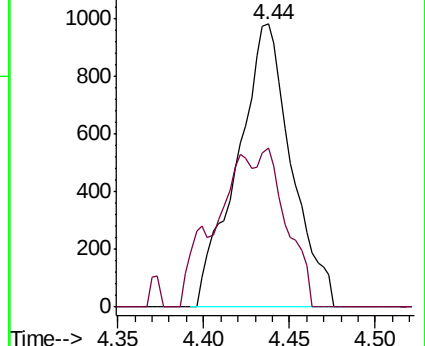
83 100

85 56.1 43.4 80.6



Abundance Ion 83.05 (82.75 to 83.75): VV0

Ion 85.00 (84.70 to 85.70): VV0



#29

1,1,1-Trichloroethane

Concen: 0.215 ug/L

RT: 4.66 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VV008315.D

Acq: 17 Oct 2018 00:20

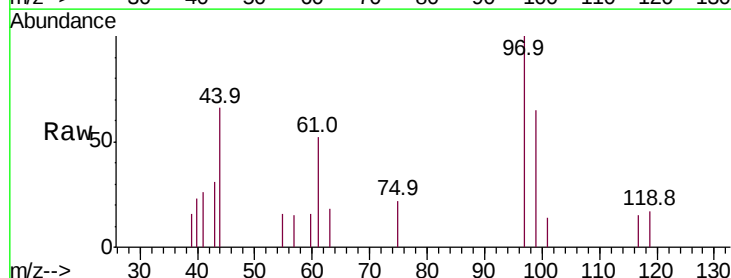
Tgt Ion: 97 Resp: 1790

Ion Ratio Lower Upper

97 100

99 63.4 51.6 77.4

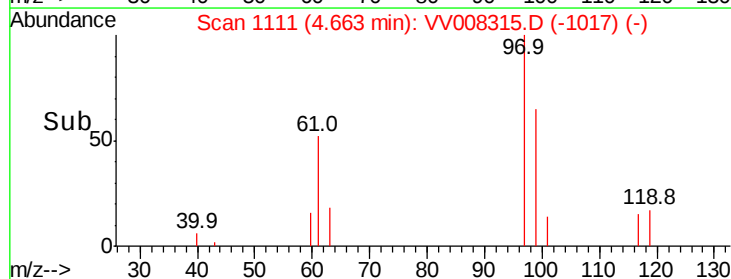
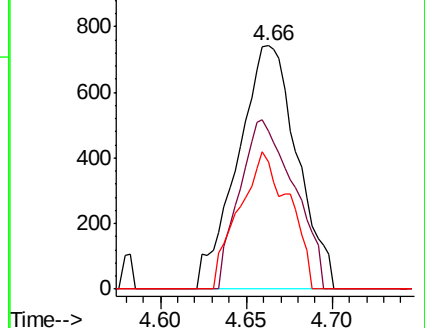
61 47.5 37.0 55.6

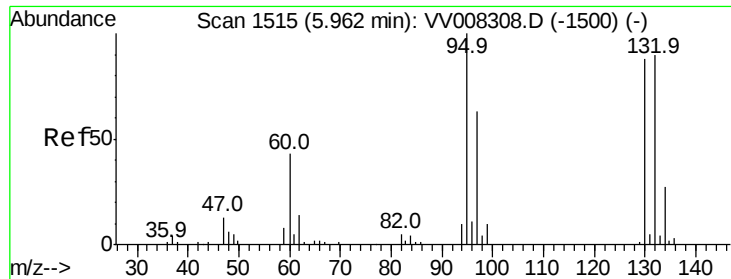


Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0

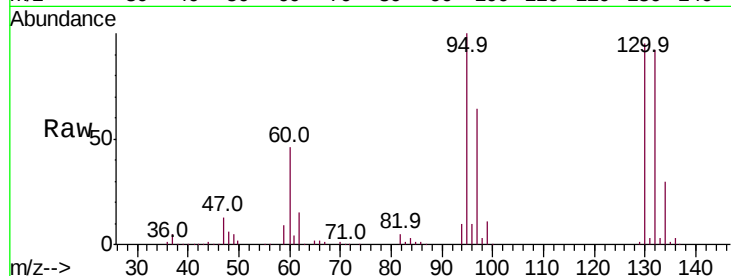




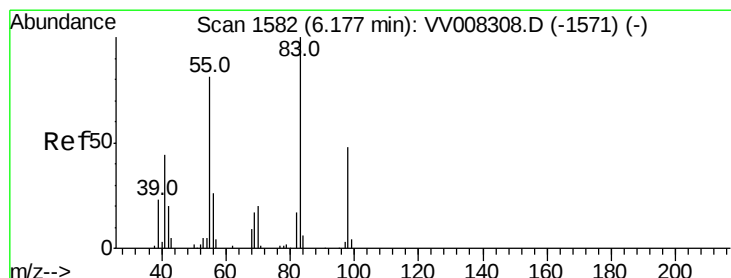
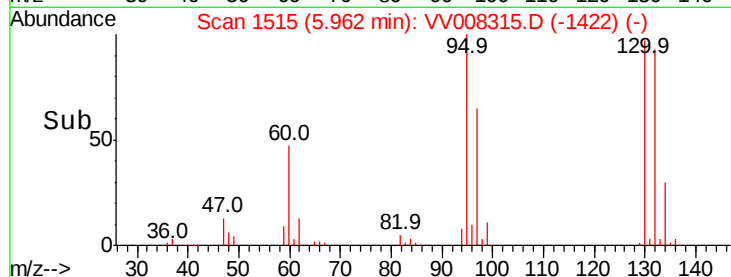
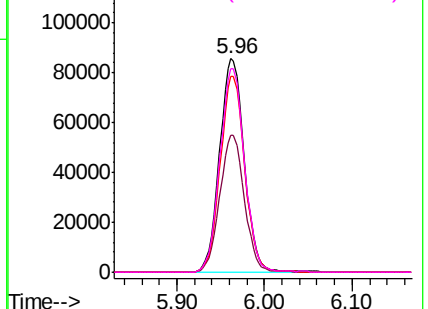
#34
 Trichloroethene
 Concen: 26.813 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.00 min
 Lab File: VV008315.D
 Acq: 17 Oct 2018 00:20

Instrument :
 MSVOA_V
 ClientSampleId :
 C0JB3

Tot Ion: 95 Resp: 167498
 Ion Ratio Lower Upper
 95 100
 97 64.3 44.4 82.4
 132 91.9 60.4 112.2
 130 95.4 65.5 121.7

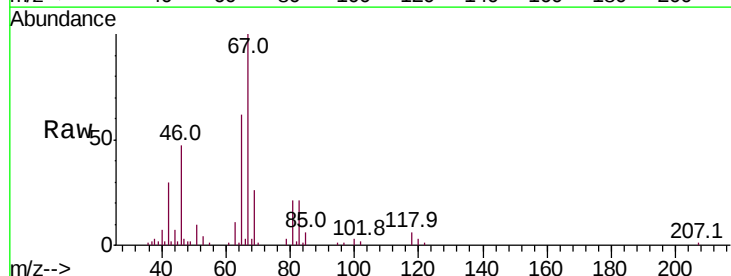


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

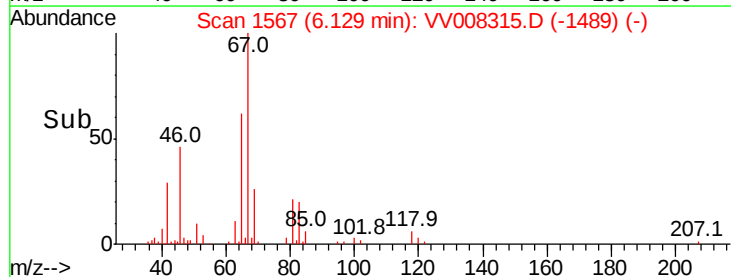
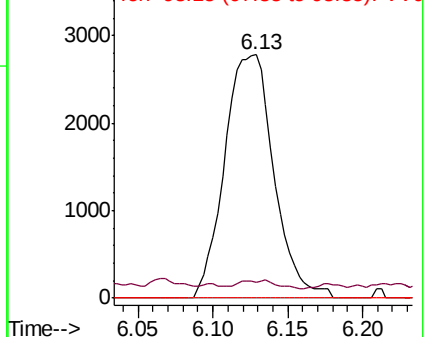


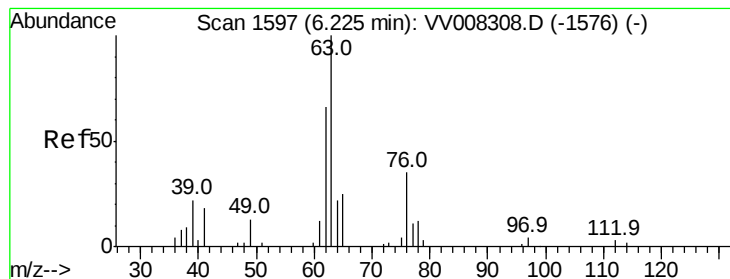
#35
 Methylcyclohexane
 Concen: 0.606 ug/L
 RT: 6.13 min Scan# 1567
 Delta R.T. -0.05 min
 Lab File: VV008315.D
 Acq: 17 Oct 2018 00:20

Tgt Ion: 83 Resp: 6383
 Ion Ratio Lower Upper
 83 100
 55 0.7 64.0 96.0#
 98 0.0 37.0 55.4#



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





#37

1,2-Dichloropropane

Concen: 0.516 ug/L

RT: 6.12 min Scan# 1565

Delta R.T. -0.10 min

Lab File: VV008315.D

Acq: 17 Oct 2018 00:20

Instrument :

MSVOA_V

ClientSampleId :

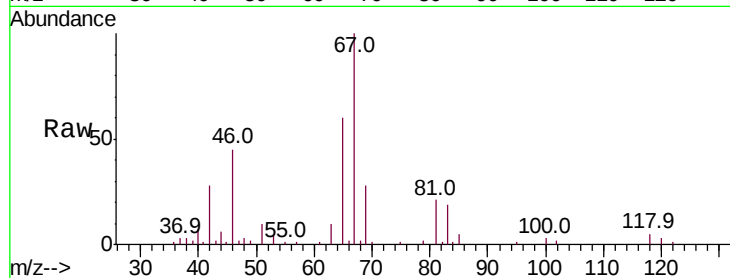
C0JB3

Tot Ion: 63 Resp: 3141

Ion Ratio Lower Upper

63 100

112 0.0 2.6 3.8#



Abundance Ion 63.10 (62.80 to 63.80): VV008315.D (-1565) (-)

Ion 112.10 (111.80 to 112.80): VV008315.D (-1565) (-)

6.12

1500

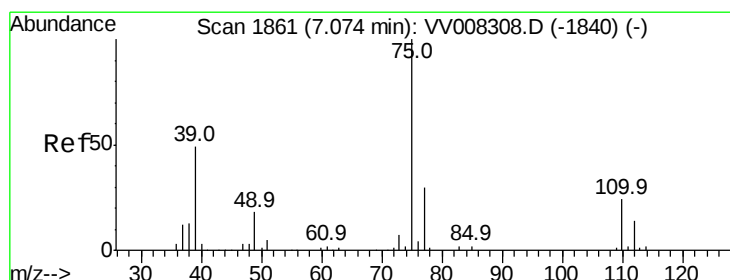
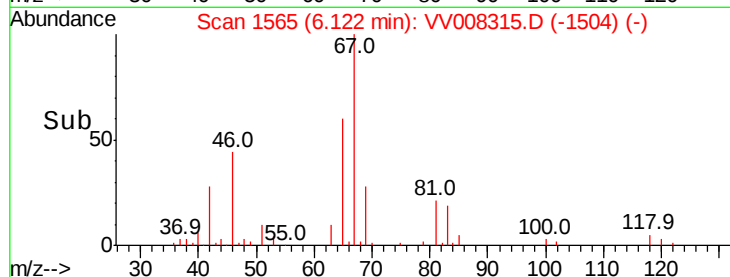
1000

500

0

6.10 6.15

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.094 ug/L

RT: 7.04 min Scan# 1849

Delta R.T. -0.04 min

Lab File: VV008315.D

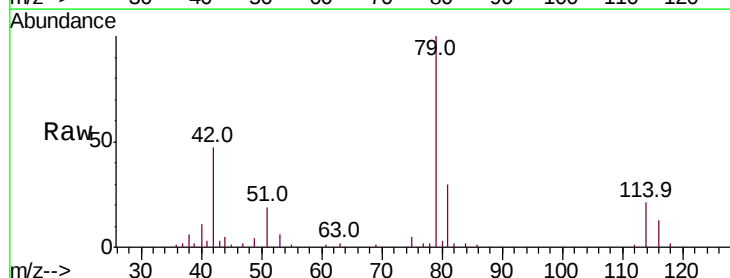
Acq: 17 Oct 2018 00:20

Tgt Ion: 75 Resp: 813

Ion Ratio Lower Upper

75 100

77 47.7 22.3 41.3#



Abundance Ion 75.05 (74.75 to 75.75): VV008315.D (-1849) (-)

Ion 77.05 (76.75 to 77.75): VV008315.D (-1849) (-)

7.04

600

500

400

300

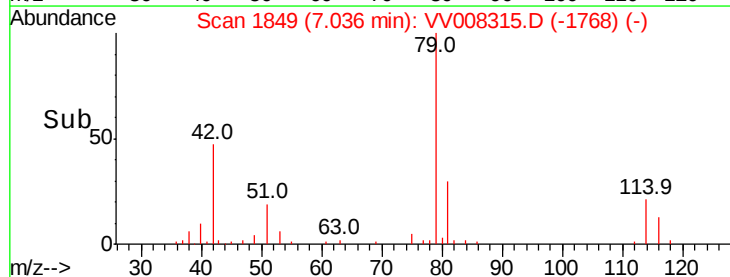
200

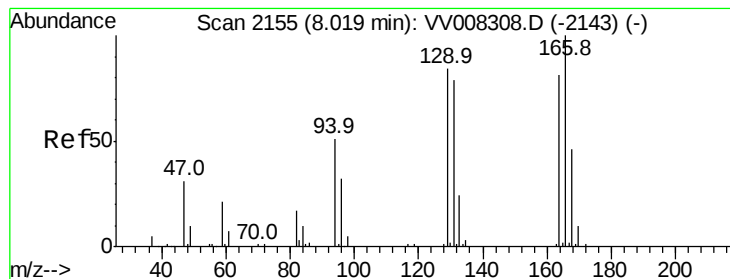
100

0

7.00 7.05

Time-->





#47

Tetrachloroethene

Concen: 14.196 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV008315.D

Acq: 17 Oct 2018 00:20

Instrument :

MSVOA_V

ClientSampleId :

C0JB3

Tot Ion:164 Resp: 55563

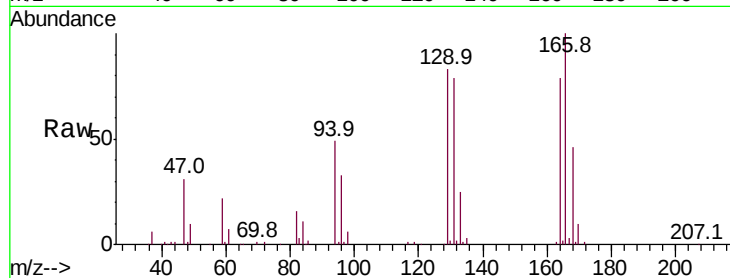
Ion Ratio Lower Upper

164 100

129 105.1 76.5 142.1

131 101.1 74.7 138.7

166 127.3 91.6 170.0

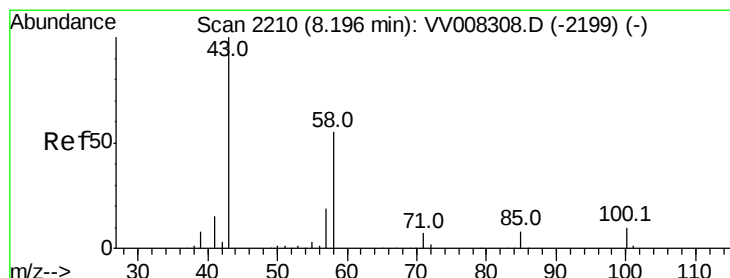
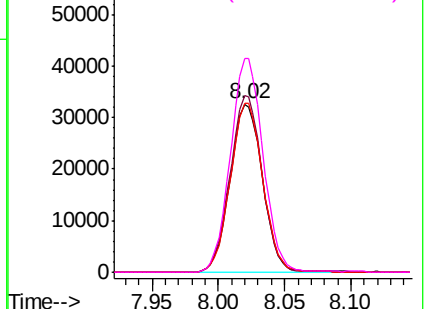
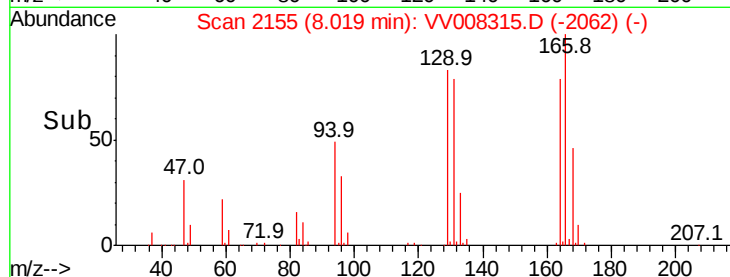


Abundance Ion 163.90 (163.60 to 164.60): V

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



#48

2-Hexanone

Concen: 5.396 ug/L

RT: 8.19 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VV008315.D

Acq: 17 Oct 2018 00:20

Tgt Ion: 43 Resp: 14692

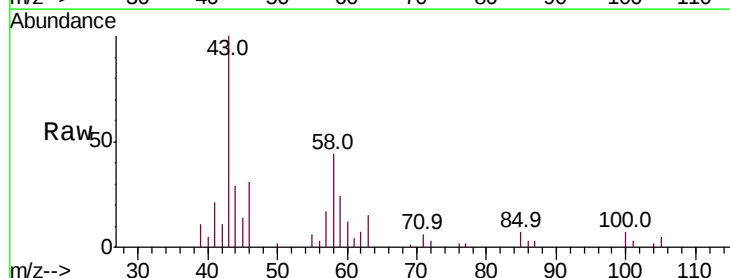
Ion Ratio Lower Upper

43 100

58 46.9 45.0 67.4

57 16.9 14.4 21.6

100 6.2 7.9 11.9#

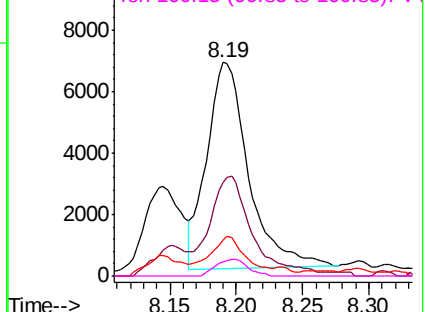
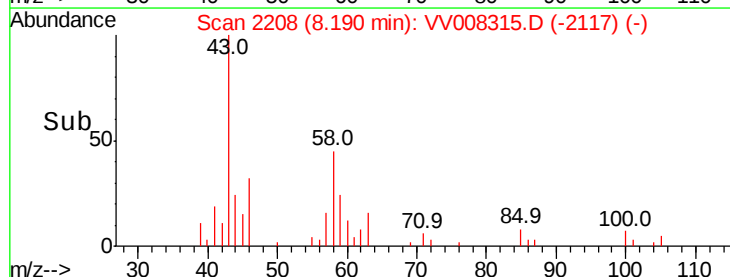


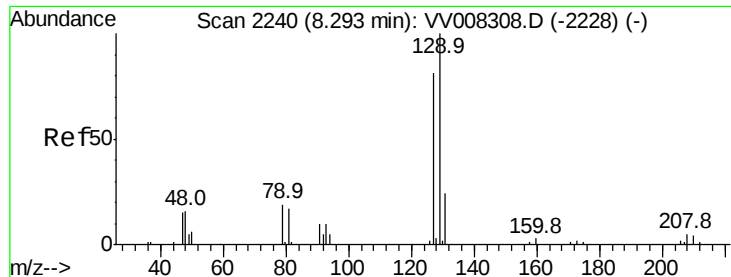
Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0





#49

Dibromochloromethane

Concen: 12.935 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.27 min

Lab File: VV008315.D

Acq: 17 Oct 2018 00:20

Instrument :

MSVOA_V

ClientSampleId :

C0JB3

Tot Ion:129 Resp: 55670

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.7#

