

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091318\
 Data File : VV007527.D
 Acq On : 13 Sep 2018 23:19
 Operator : SY/MD
 Sample : J4871-08DL 4X
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 14 05:12:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR091318WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Sep 14 05:10:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	132266	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	118914	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	63893	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	27375	3.96	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.20%
7) Chloroethane-d5	1.59	69	25864	4.46	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.20%
11) 1,1-Dichloroethene-d2	2.14	63	47007	3.27	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.40%
20) 2-Butanone-d5	3.97	46	73110	75.87	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	151.74%#
24) Chloroform-d	4.41	84	62028	4.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.60%
26) 1,2-Dichloroethane-d4	5.09	65	32546	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.60%
32) Benzene-d6	5.10	84	120644	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.40%
36) 1,2-Dichloropropane-d6	6.12	67	36691	4.56	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.20%
41) Toluene-d8	7.36	98	119574	4.26	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.20%
43) trans-1,3-Dichloropropene-	7.67	79	14940	4.02	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.40%
46) 2-Hexanone-d5	8.14	63	35896	60.43	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	120.86%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	28515	5.07	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.40%
64) 1,2-Dichlorobenzene-d4	11.68	152	49210	4.21	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	84.20%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	3352	0.482	ug/L # 79
8) Chloroethane	1.60	64	815	0.192	ug/L 90
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	602	0.081	ug/L # 22
12) 1,1-Dichloroethene	2.15	96	6668	0.993	ug/L # 1
15) Methyl Acetate	2.47	43	457	0.265	ug/L # 43
16) Methylene chloride	2.54	84	8600	1.185	ug/L 95
19) 1,1-Dichloroethane	3.23	63	1701	0.160	ug/L # 95
22) cis-1,2-Dichloroethene	3.97	96	37971	5.275	ug/L 95
27) 1,2-Dichloroethane	5.10	62	776	0.111	ug/L # 74
29) 1,1,1-Trichloroethane	4.66	97	16760	1.449	ug/L 98
31) Carbon tetrachloride	4.67	117	2252	0.208	ug/L 98
34) Trichloroethene	5.96	95	189393	25.148	ug/L 98
35) Methylcyclohexane	6.12	83	9047	0.778	ug/L # 22
37) 1,2-Dichloropropane	6.12	63	4433	0.733	ug/L # 85
39) cis-1,3-Dichloropropene	7.04	75	1342	0.139	ug/L # 78
44) trans-1,3-Dichloropropene	7.67	75	713	0.090	ug/L # 52
48) 2-Hexanone	8.15	43	8210	3.237	ug/L # 51

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Sep 14 05:10:24 2018
Response via : Initial Calibration

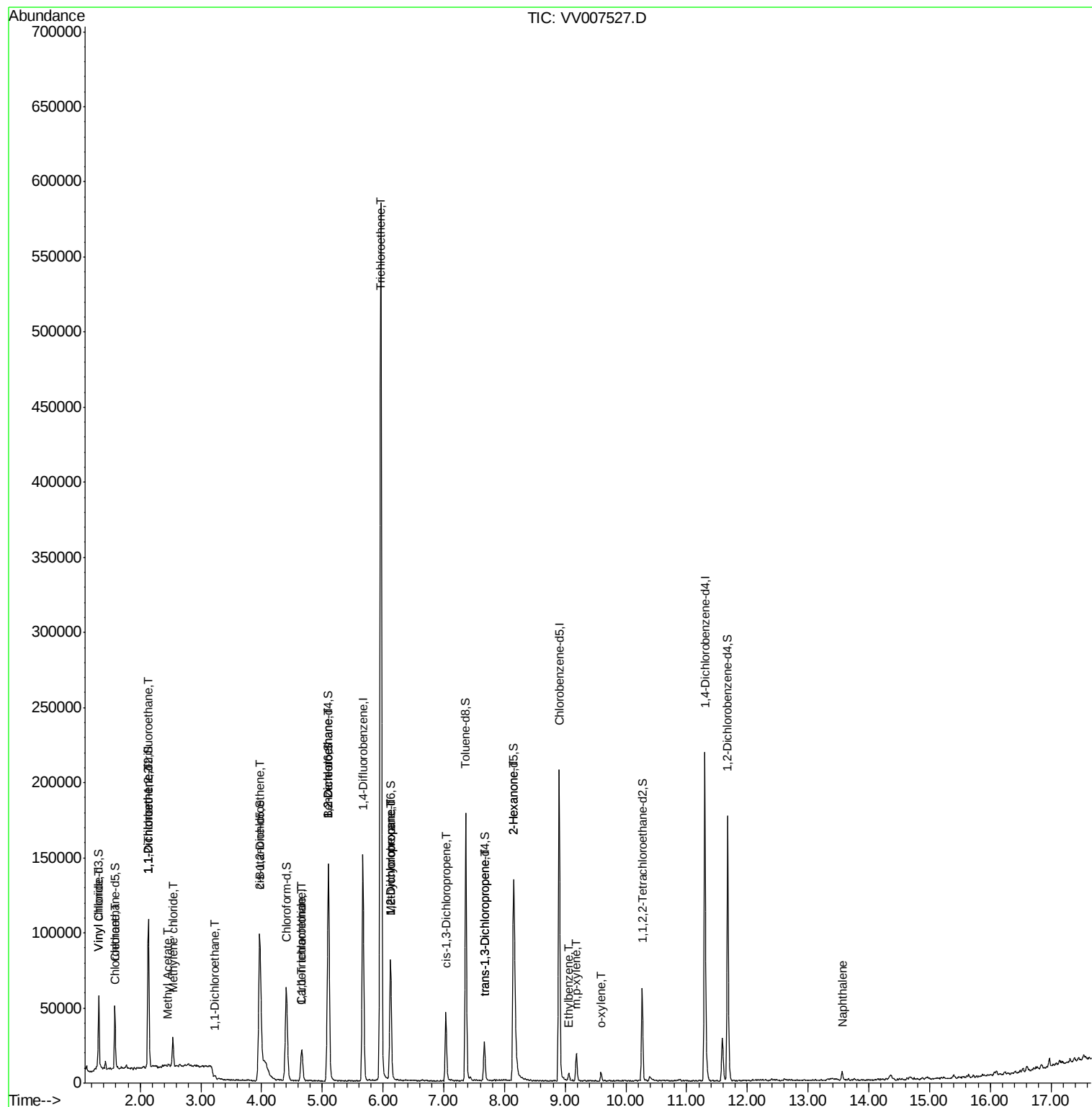
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.06	91	3988	0.125	ug/L	91
53) m,p-xylene	9.19	106	5249	0.424	ug/L	99
54) o-xylene	9.59	106	1638	0.135	ug/L	81
69) Naphthalene	13.56	128	4536	0.413	ug/L	99

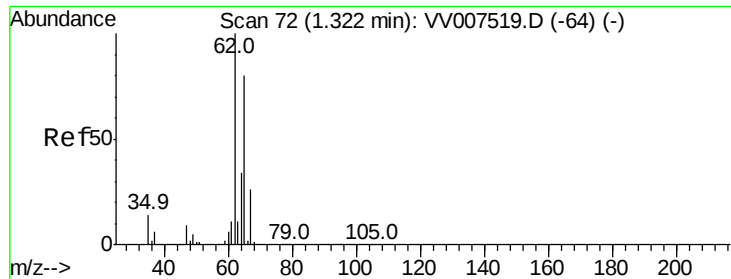
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV091318\
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QLast Update : Fri Sep 14 05:10:24 2018
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.482 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV007527.D

Acq: 13 Sep 2018 23:19

Instrument :

MSVOA_V

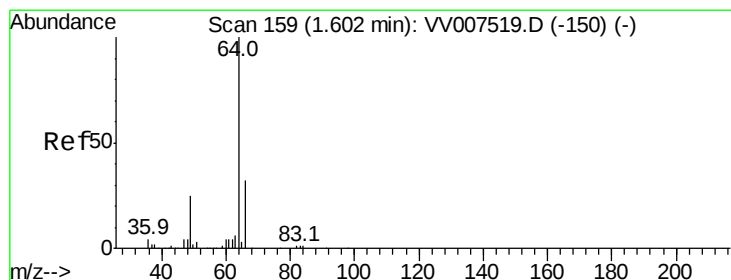
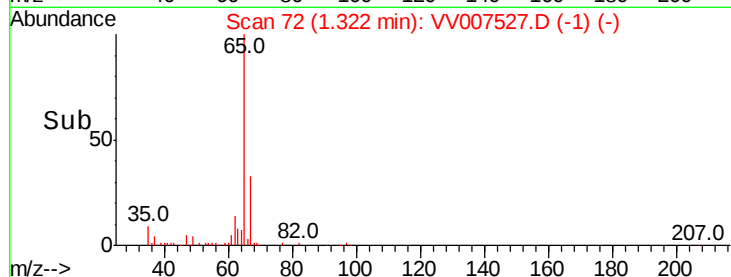
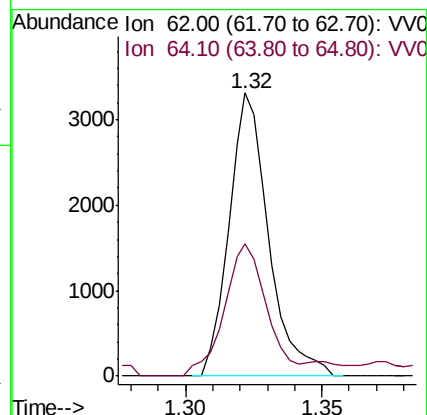
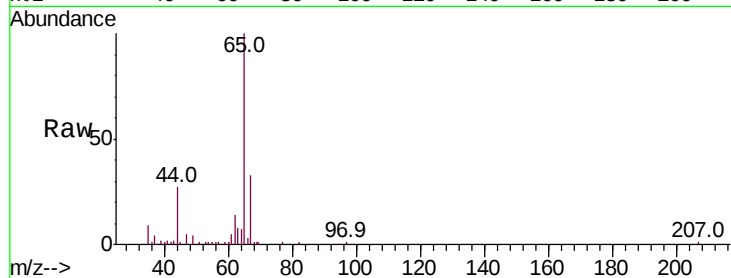
ClientSampleId :

Tot Ion: 62 Resp: 3352

Ion Ratio Lower Upper

62 100

64 47.0 24.4 45.2#



#8

Chloroethane

Concen: 0.192 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV007527.D

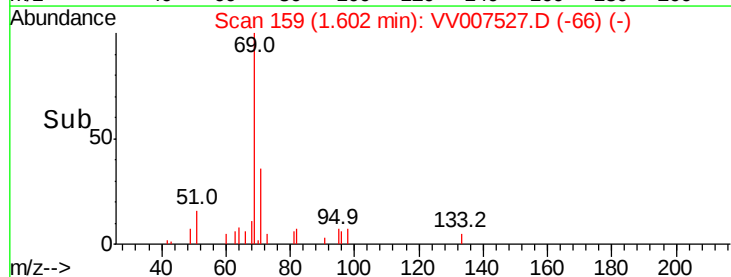
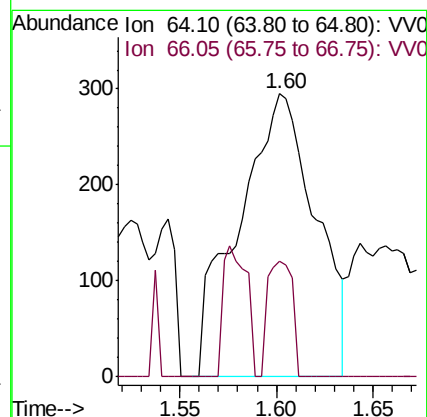
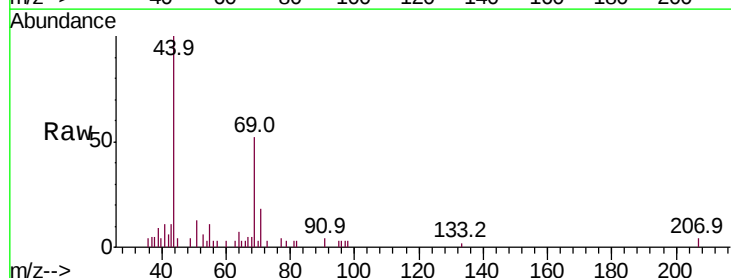
Acq: 13 Sep 2018 23:19

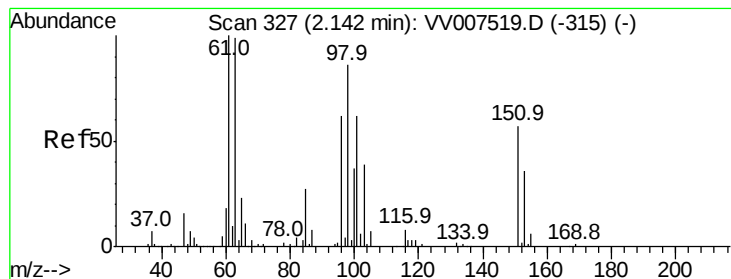
Tgt Ion: 64 Resp: 815

Ion Ratio Lower Upper

64 100

66 40.7 24.3 45.1





#10

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

Concen: 0.081 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.01 min

Lab File: VV007527.D

Acq: 13 Sep 2018 23:19

Instrument :

MSVOA_V

ClientSampled :

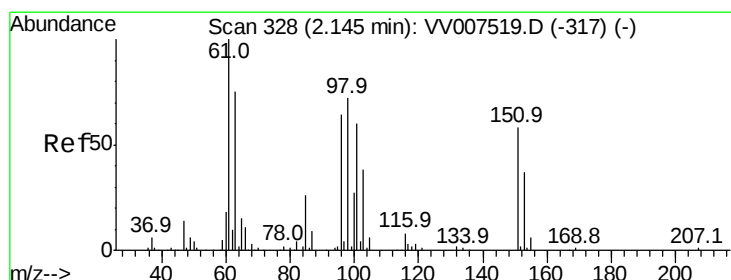
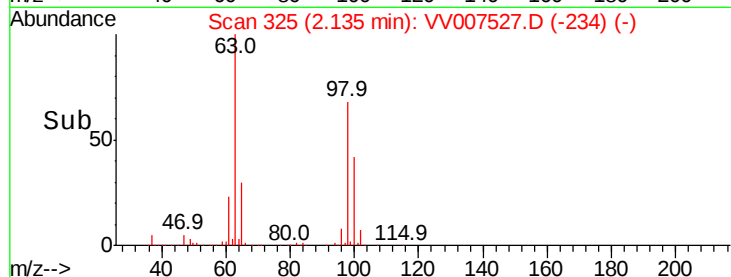
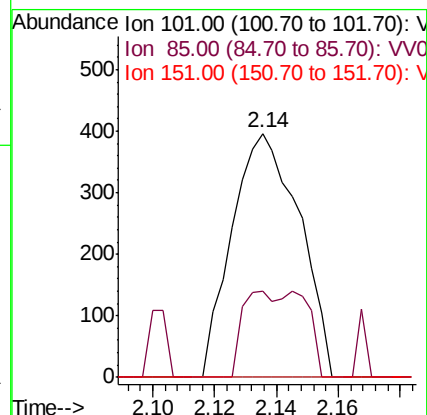
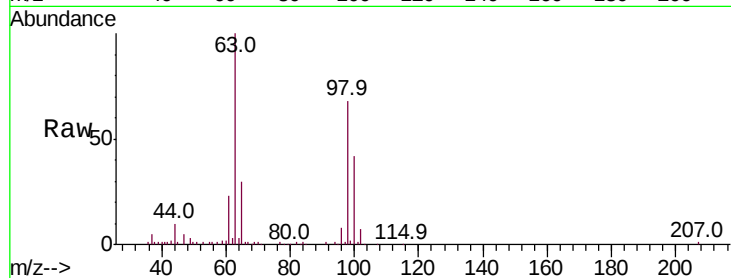
Tot Ion:101 Resp: 602

Ion Ratio Lower Upper

101 100

85 16.4 34.8 52.2#

151 0.0 72.6 109.0#



#12

1,1-Dichloroethene

Concen: 0.993 ug/L

RT: 2.15 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV007527.D

Acq: 13 Sep 2018 23:19

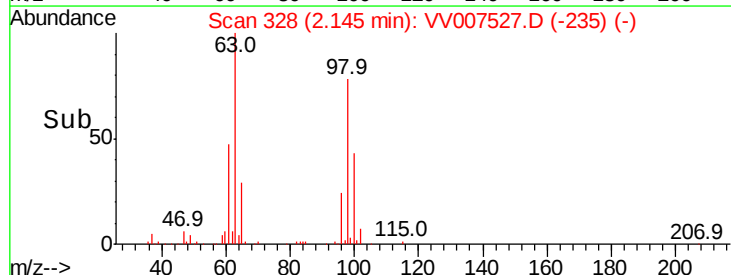
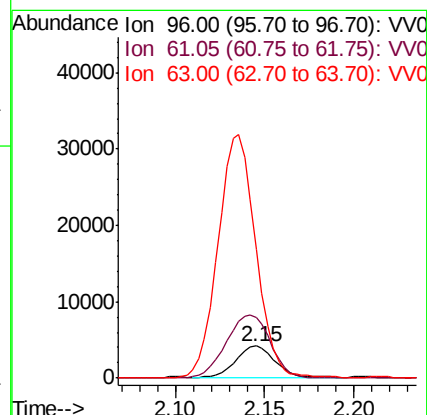
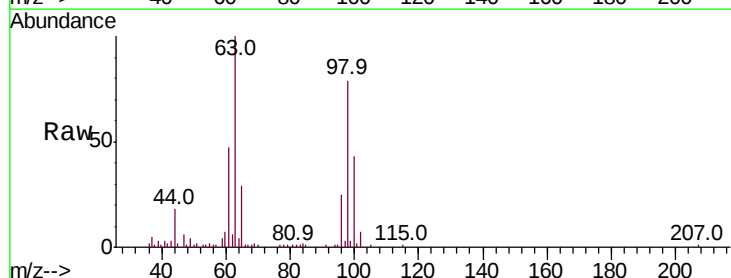
Tgt Ion: 96 Resp: 6668

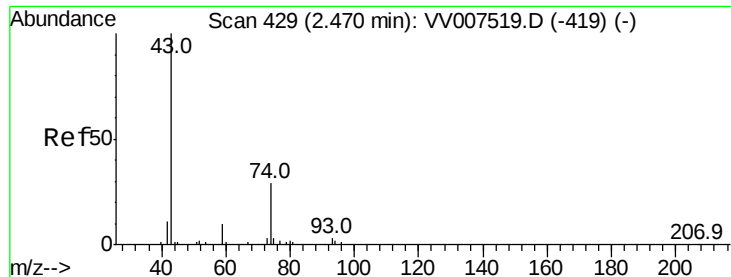
Ion Ratio Lower Upper

96 100

61 189.0 114.8 213.2

63 398.1 81.8 151.8#





#15

Methvl Acetate

Concen: 0.265 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.00 min

Lab File: VV007527.D

Acq: 13 Sep 2018 23:19

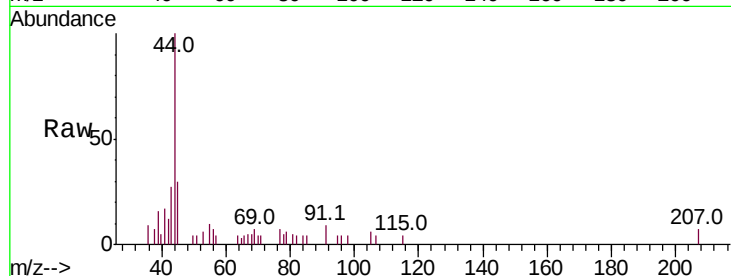
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 457

Ion Ratio Lower Upper

43 100

74 0.0 25.4 38.2#



Abundance Ion 43.05 (42.75 to 43.75): VV007519.D (-419) (-)

Ion 74.05 (73.75 to 74.75): VV007519.D (-419) (-)

2.47

800

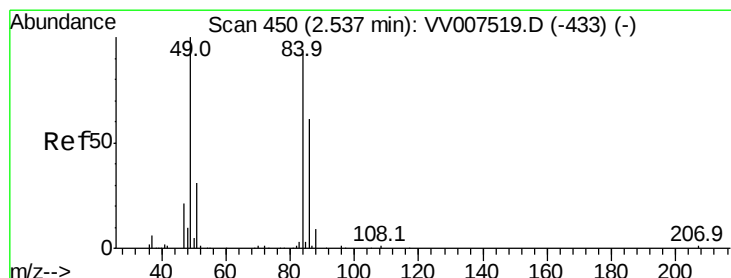
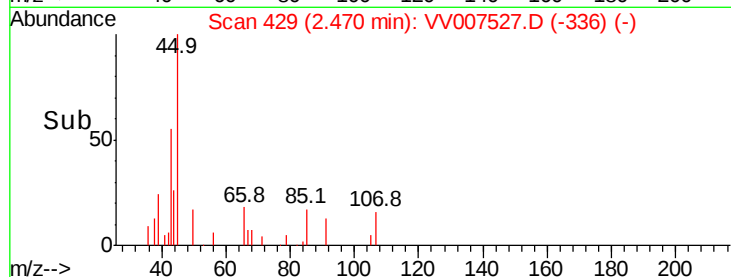
600

400

200

0

Time-->



#16

Methylene chloride

Concen: 1.185 ug/L

RT: 2.54 min Scan# 451

Delta R.T. 0.00 min

Lab File: VV007527.D

Acq: 13 Sep 2018 23:19

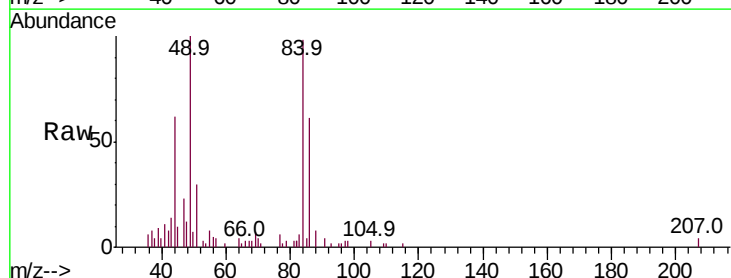
Tgt Ion: 84 Resp: 8600

Ion Ratio Lower Upper

84 100

86 61.9 43.7 81.1

49 101.9 76.8 142.6



Abundance Ion 84.05 (83.75 to 84.75): VV007519.D (-433) (-)

Ion 86.00 (85.70 to 86.70): VV007519.D (-433) (-)

Ion 49.10 (48.80 to 49.80): VV007519.D (-433) (-)

2.54

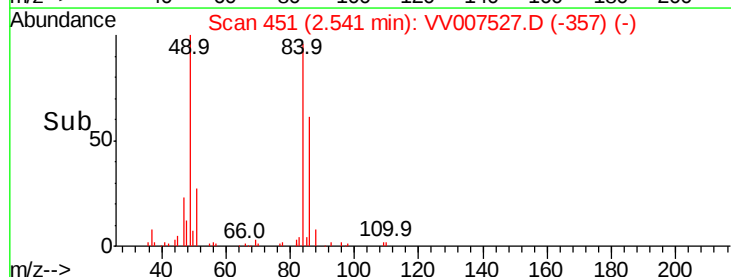
6000

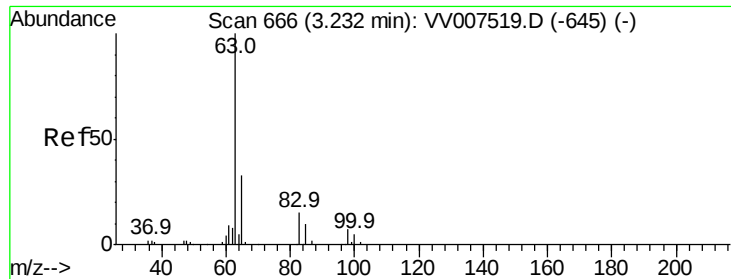
4000

2000

0

Time-->





#19

1,1-Dichloroethane

Concen: 0.160 ug/L

RT: 3.23 min Scan# 665

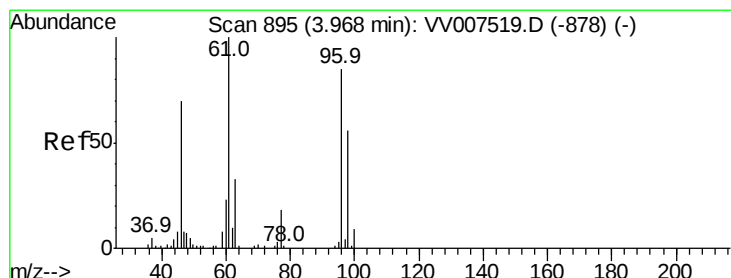
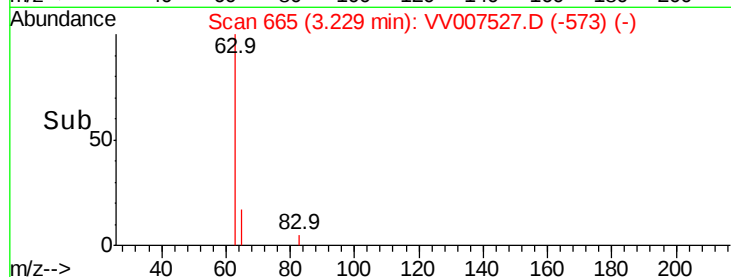
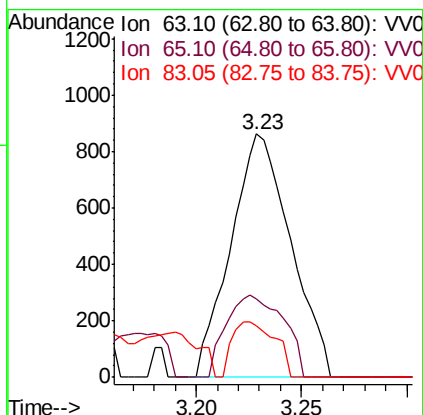
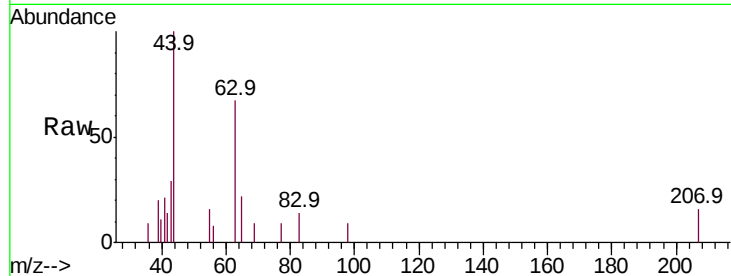
Delta R.T. -0.00 min

Lab File: VV007527.D

Acq: 13 Sep 2018 23:19

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:	63	Resp:	1701
Ion	Ratio	Lower	Upper
63	100		
65	32.3	22.5	41.9
83	21.0	10.4	19.2#



#22

cis-1,2-Dichloroethene

Concen: 5.275 ug/L

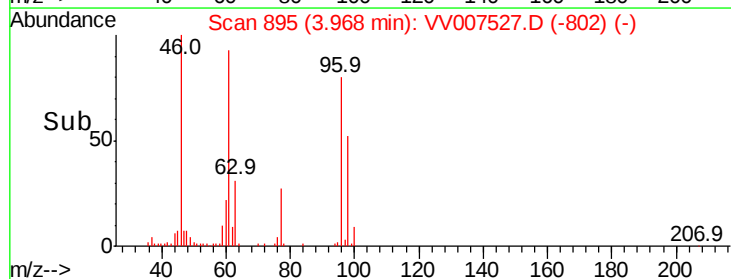
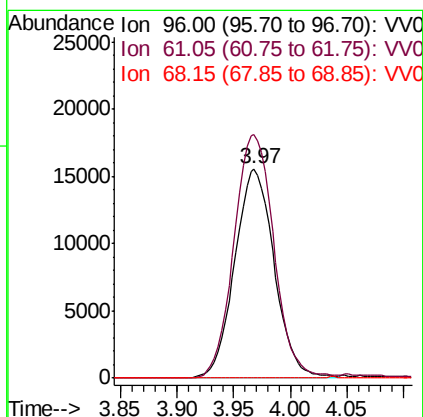
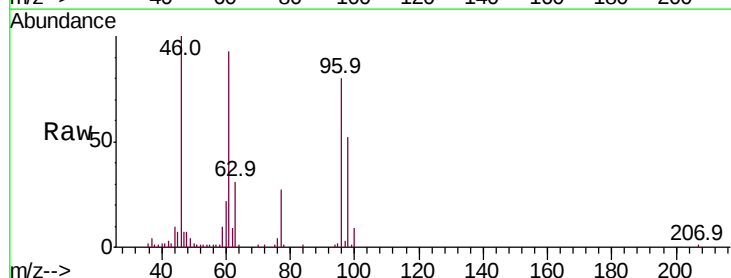
RT: 3.97 min Scan# 895

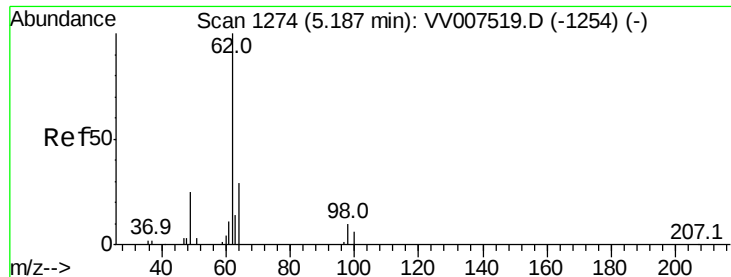
Delta R.T. 0.00 min

Lab File: VV007527.D

Acq: 13 Sep 2018 23:19

Tgt Ion:	96	Resp:	37971
Ion	Ratio	Lower	Upper
96	100		
61	116.2	85.3	158.5
68	0.0	0.0	0.0





#27

1,2-Dichloroethane

Concen: 0.111 ug/L

RT: 5.10 min Scan# 1248

Delta R.T. -0.08 min

Lab File: VV007527.D

Acq: 13 Sep 2018 23:19

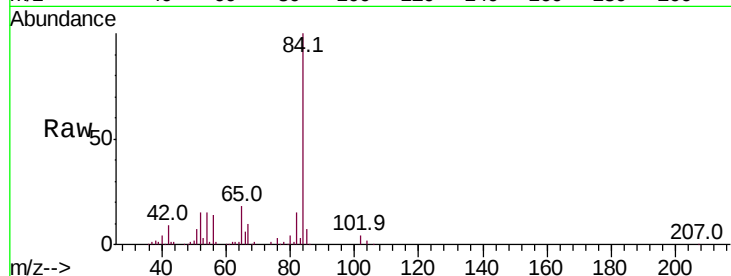
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 776

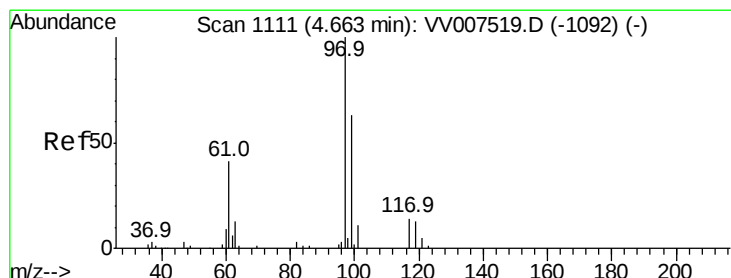
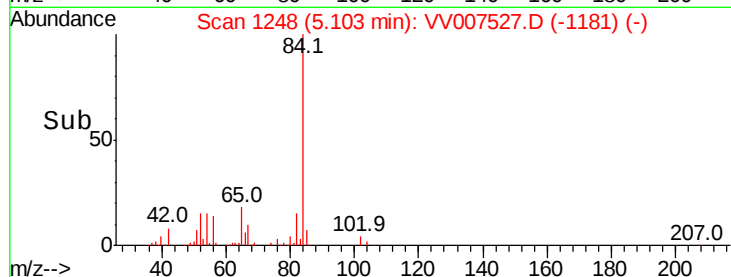
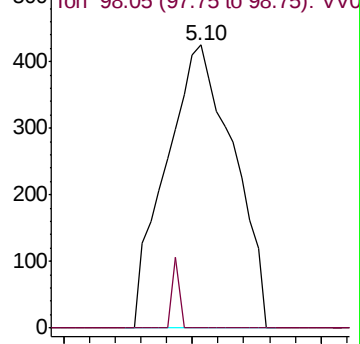
Ion Ratio Lower Upper

62 100

98 0.0 7.6 11.4#



Abundance Ion 62.00 (61.70 to 62.70): VV007519.D (-1254) (-)



#29

1,1,1-Trichloroethane

Concen: 1.449 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. -0.00 min

Lab File: VV007527.D

Acq: 13 Sep 2018 23:19

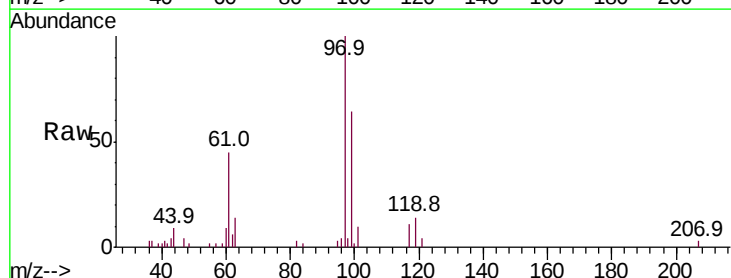
Tgt Ion: 97 Resp: 16760

Ion Ratio Lower Upper

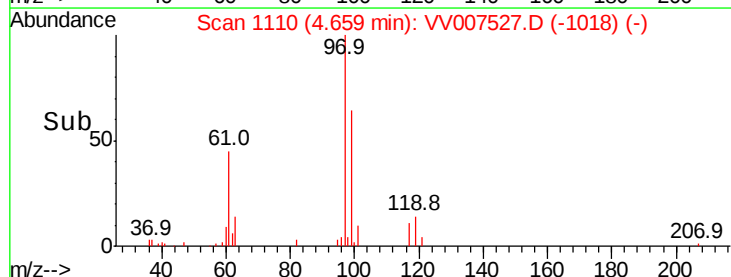
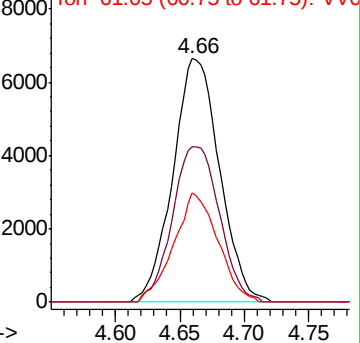
97 100

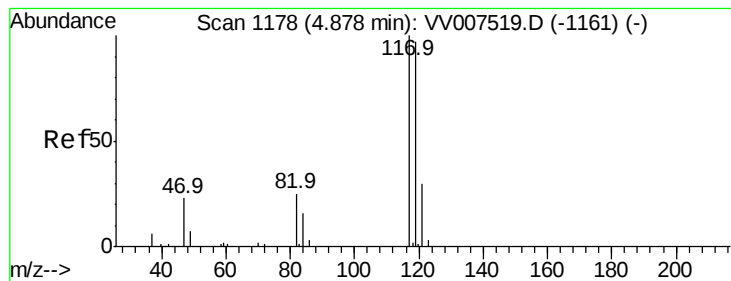
99 64.1 50.7 76.1

61 42.4 32.5 48.7



Abundance Ion 96.95 (96.65 to 97.65): VV007519.D (-1092) (-)





#31

Carbon tetrachloride

Concen: 0.208 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. -0.21 min

Lab File: VV007527.D

Acq: 13 Sep 2018 23:19

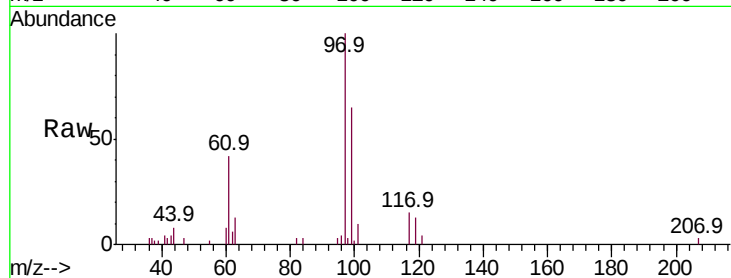
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:117 Resp: 2252

Ion Ratio Lower Upper

117 100

119 94.8 77.5 116.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.67

1000

800

600

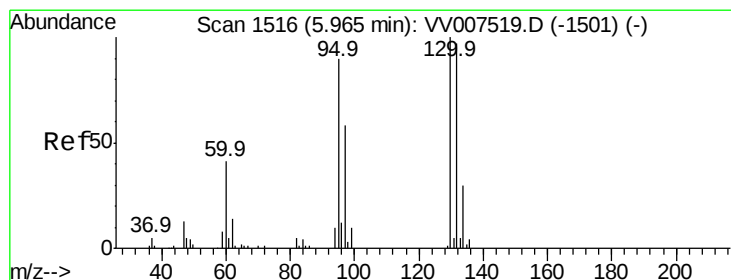
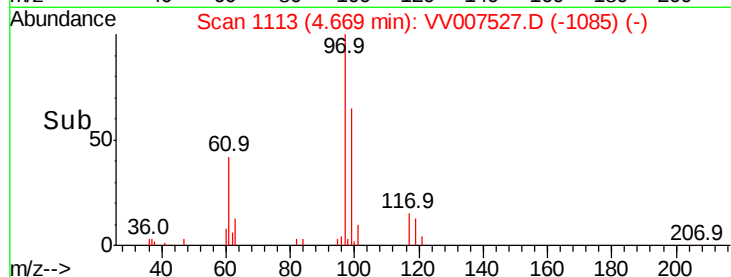
400

200

0

4.60 4.65 4.70

Time-->



#34

Trichloroethene

Concen: 25.148 ug/L

RT: 5.96 min Scan# 1516

Delta R.T. 0.00 min

Lab File: VV007527.D

Acq: 13 Sep 2018 23:19

Tgt Ion: 95 Resp: 189393

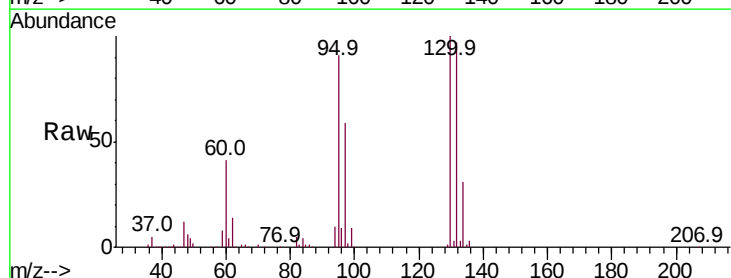
Ion Ratio Lower Upper

95 100

97 64.1 45.5 84.5

132 105.9 74.9 139.1

130 109.4 80.0 148.6



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): VV0

Ion 129.95 (129.65 to 130.65): VV0

150000

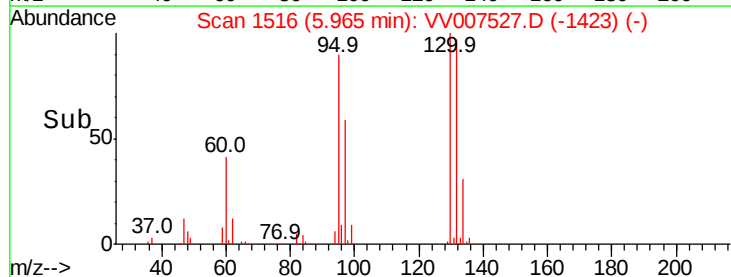
100000

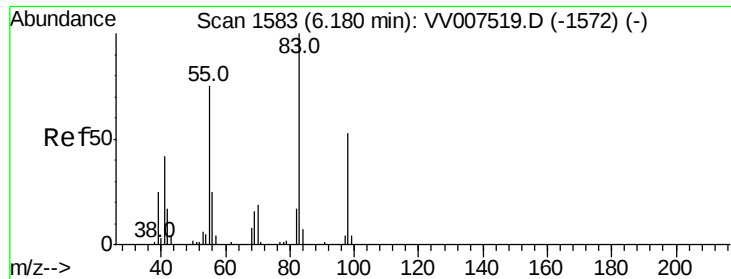
50000

0

5.85 5.90 5.95 6.00 6.05

Time-->

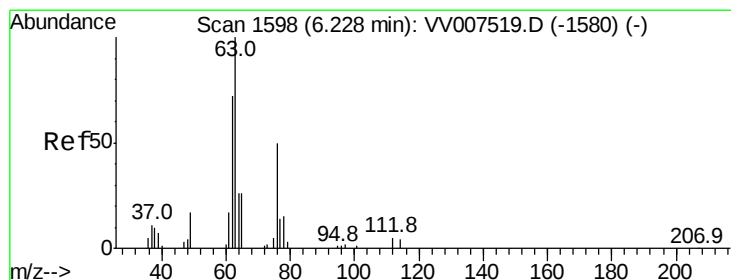
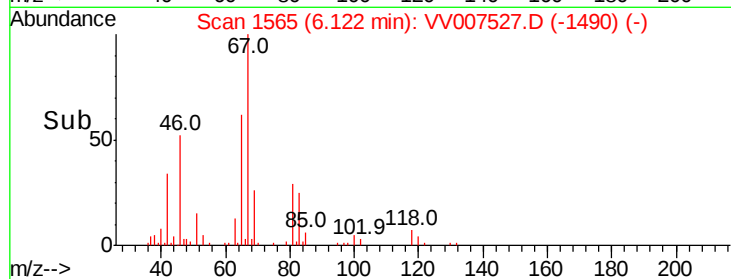
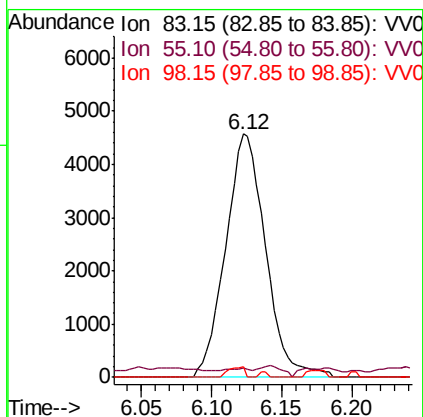
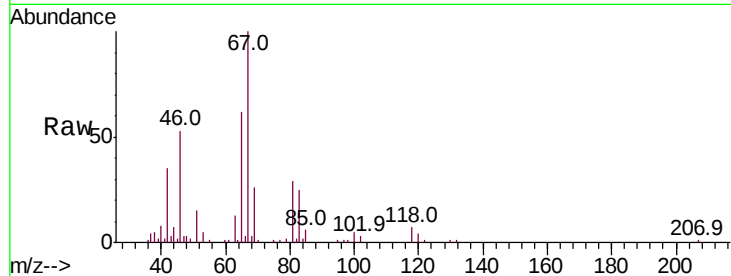




#35
Methylcyclohexane
Concen: 0.778 ug/L
RT: 6.12 min Scan# 1565
Delta R.T. -0.06 min
Lab File: VV007527.D
Acq: 13 Sep 2018 23:19

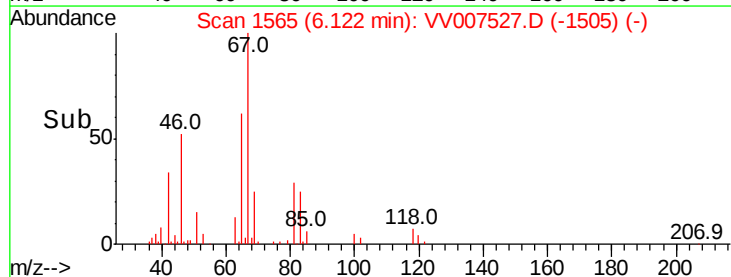
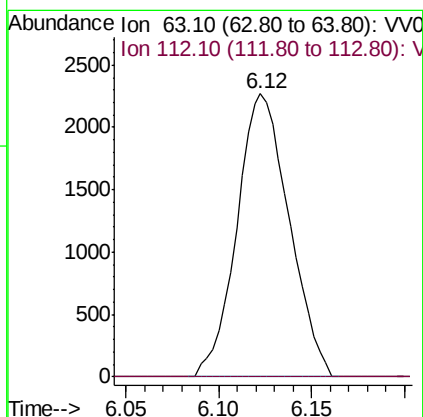
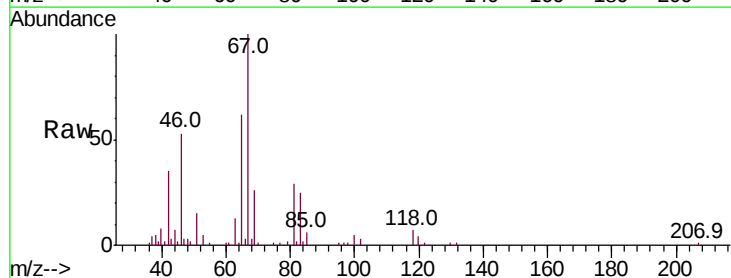
Instrument :
MSVOA_V
ClientSampleId :

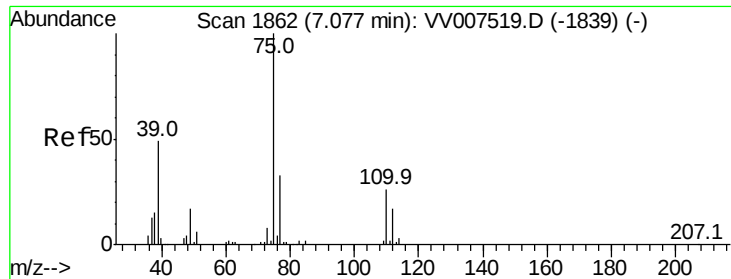
Tot Ion: 83 Resp: 9047
Ion Ratio Lower Upper
83 100
55 0.5 55.0 82.4#
98 0.0 37.6 56.4#



#37
1,2-Dichloropropane
Concen: 0.733 ug/L
RT: 6.12 min Scan# 1565
Delta R.T. -0.11 min
Lab File: VV007527.D
Acq: 13 Sep 2018 23:19

Tgt Ion: 63 Resp: 4433
Ion Ratio Lower Upper
63 100
112 0.0 4.1 6.1#





#39

cis-1,3-Dichloropropene

Concen: 0.139 ug/L

RT: 7.04 min Scan# 1849

Delta R.T. -0.04 min

Lab File: VV007527.D

Acq: 13 Sep 2018 23:19

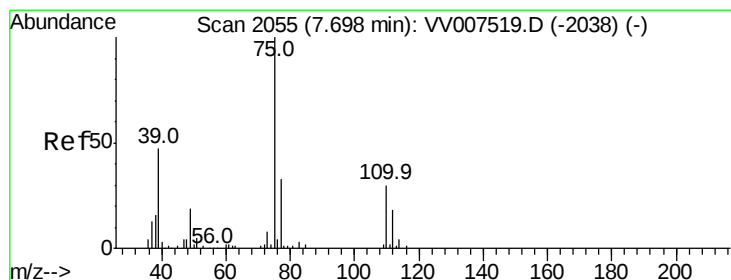
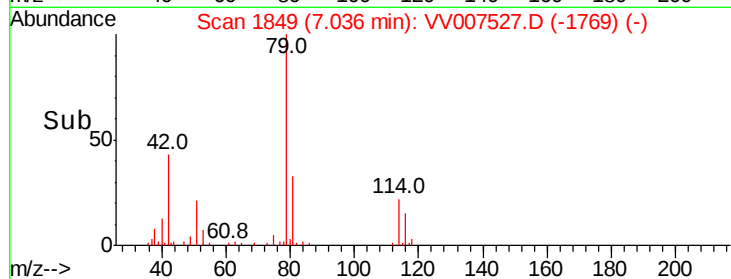
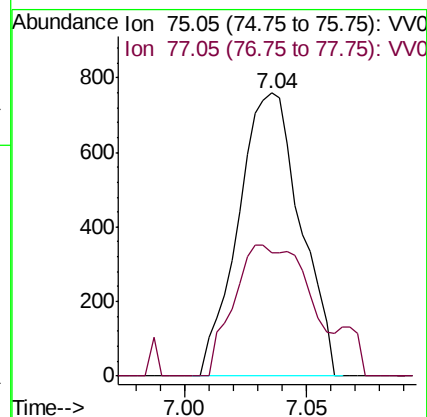
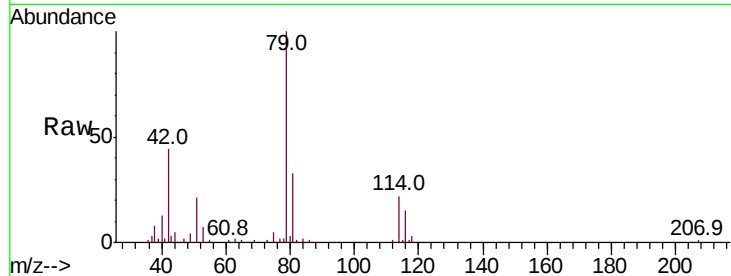
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 75 Resp: 1342

Ion Ratio Lower Upper

75 100

77 43.7 22.0 41.0#



#44

trans-1,3-Dichloropropene

Concen: 0.090 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. -0.03 min

Lab File: VV007527.D

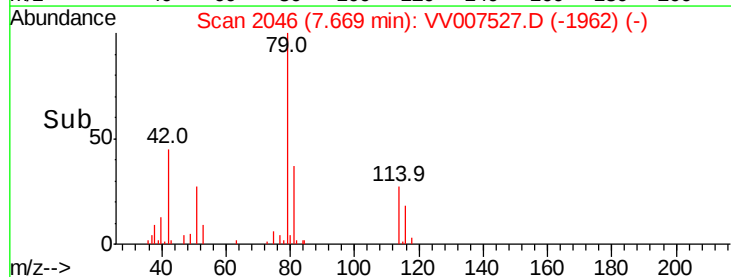
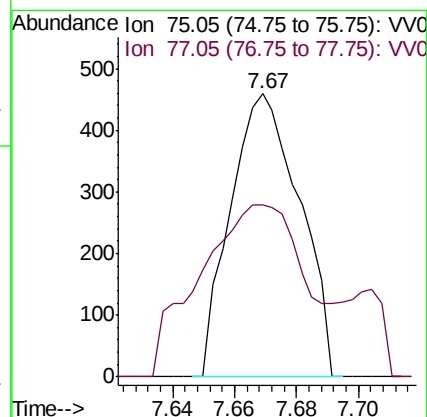
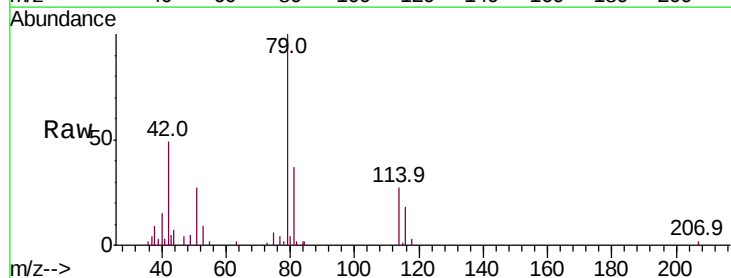
Acq: 13 Sep 2018 23:19

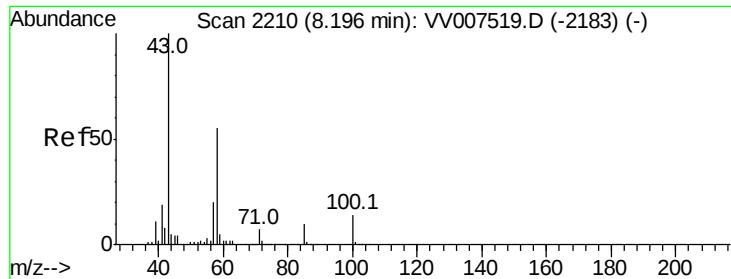
Tgt Ion: 75 Resp: 713

Ion Ratio Lower Upper

75 100

77 60.8 23.4 43.4#

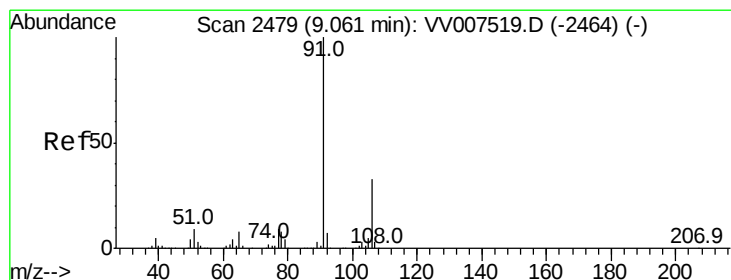
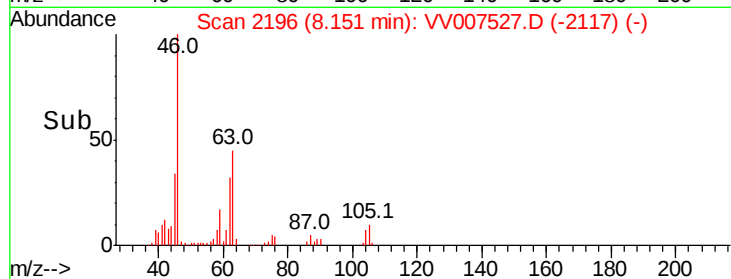
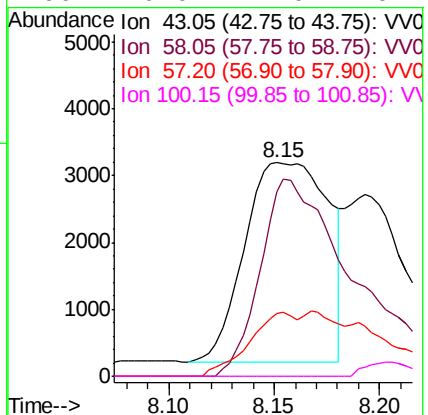
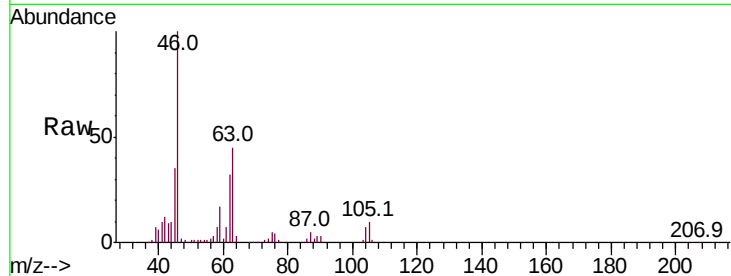




#48
2-Hexanone
Concen: 3.237 ug/L
RT: 8.15 min Scan# 2196
Delta R.T. -0.04 min
Lab File: VV007527.D
Acq: 13 Sep 2018 23:19

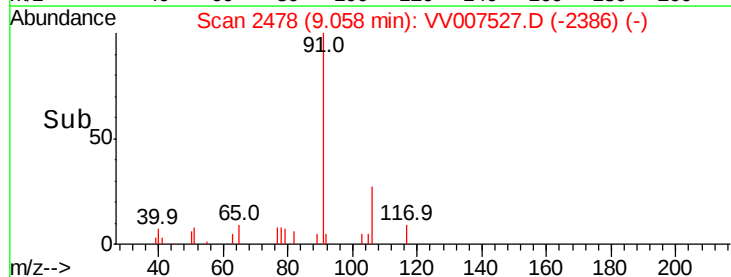
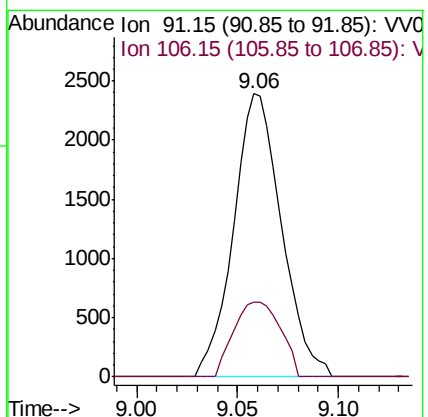
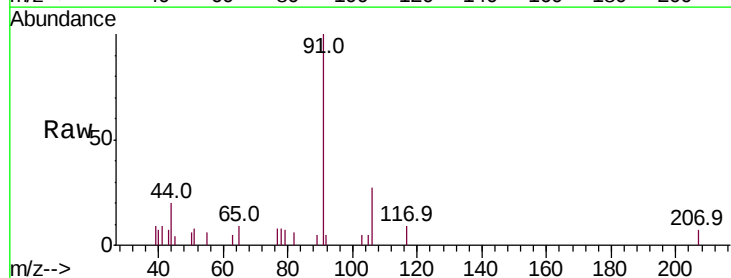
Instrument :
MSVOA_V
ClientSampleId :

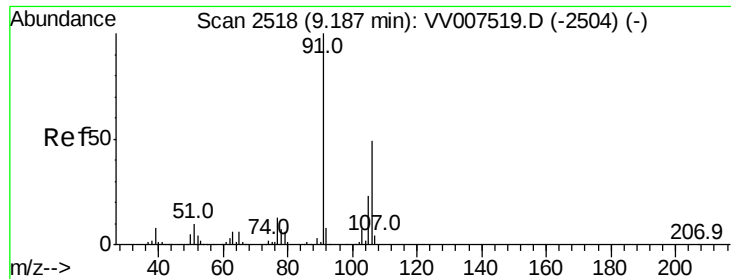
Tot Ion: 43 Resp: 8210
Ion Ratio Lower Upper
43 100
58 113.2 49.8 74.6#
57 18.2 18.2 27.4#
100 0.0 11.0 16.4#



#52
Ethylbenzene
Concen: 0.125 ug/L
RT: 9.06 min Scan# 2478
Delta R.T. -0.00 min
Lab File: VV007527.D
Acq: 13 Sep 2018 23:19

Tgt Ion: 91 Resp: 3988
Ion Ratio Lower Upper
91 100
106 26.6 22.0 41.0

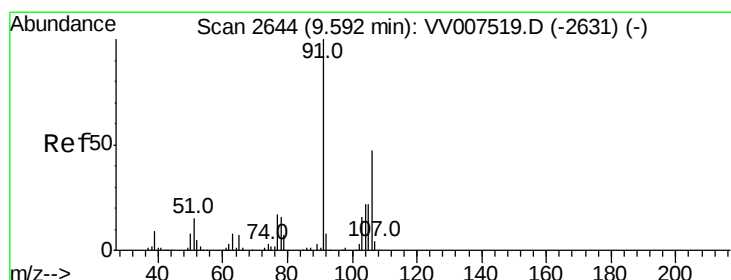
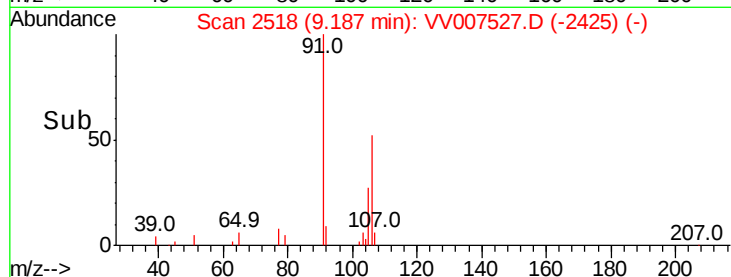
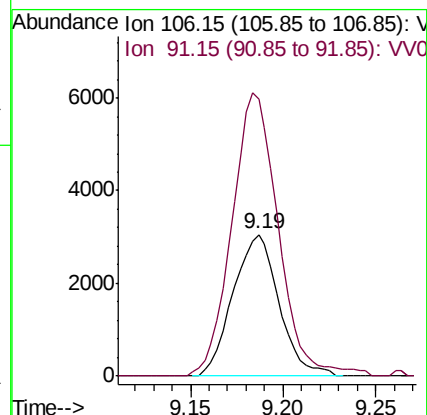
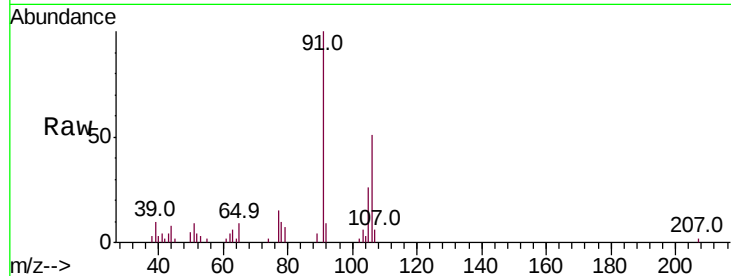




#53
m,p-xylene
Concen: 0.424 ug/L
RT: 9.19 min Scan# 2518
Delta R.T. 0.00 min
Lab File: VV007527.D
Acq: 13 Sep 2018 23:19

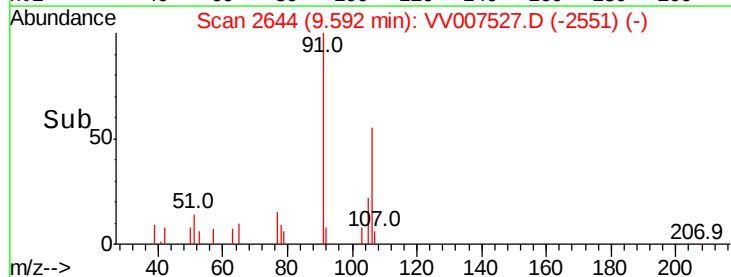
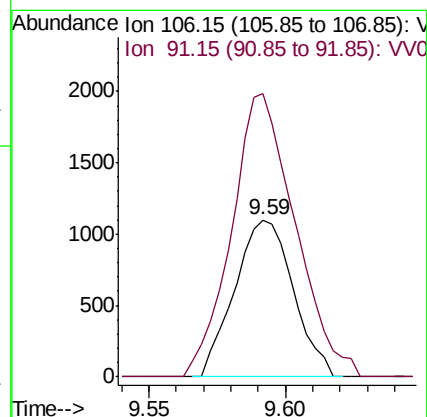
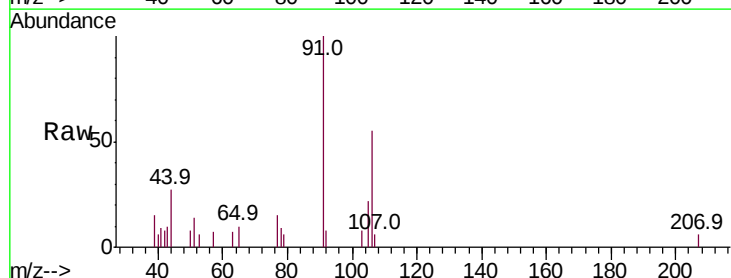
Instrument :
MSVOA_V
ClientSampleId :

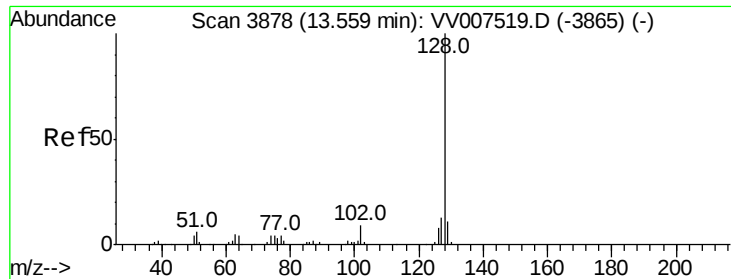
Tot Ion:106 Resp: 5249
Ion Ratio Lower Upper
106 100
91 195.0 137.2 254.8



#54
o-xylene
Concen: 0.135 ug/L
RT: 9.59 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VV007527.D
Acq: 13 Sep 2018 23:19

Tgt Ion:106 Resp: 1638
Ion Ratio Lower Upper
106 100
91 180.4 147.6 274.0





#69

Naphthalene

Concen: 0.413 ug/L

RT: 13.56 min Scan# 3879

Delta R.T. 0.00 min

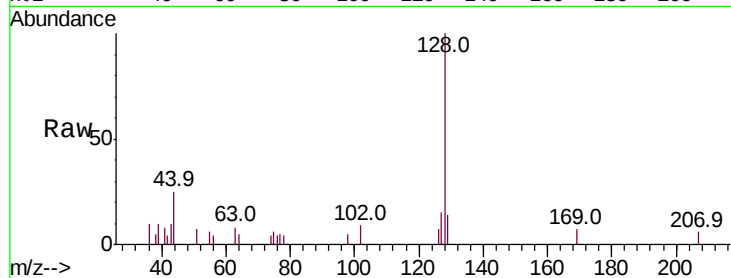
Lab File: VV007527.D

Acq: 13 Sep 2018 23:19

Instrument :

MSVOA_V

ClientSampleId :



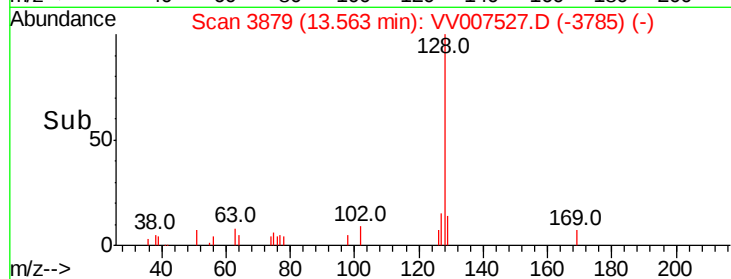
Tot Ion:128 Resp: 4536

Ion Ratio Lower Upper

128 100

129 10.4 8.5 12.7

127 13.9 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

