

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052920\
 Data File : VV016346.D
 Acq On : 30 May 2020 06:02
 Operator : SY/MD
 Sample : L2788-02
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 30 06:47:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat May 30 03:05:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	79787	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	73171	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	26010	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	20866	4.07	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	81.40%
7) Chloroethane-d5	1.58	69	16606	3.69	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	73.80%
11) 1,1-Dichloroethene-d2	2.12	63	31059	3.23	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	64.60%
20) 2-Butanone-d5	3.97	46	35262	27.74	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	55.48%
24) Chloroform-d	4.38	84	43849	4.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.00%
26) 1,2-Dichloroethane-d4	5.06	65	24165	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.40%
32) Benzene-d6	5.07	84	85948	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.80%
36) 1,2-Dichloropropane-d6	6.10	67	26686	4.76	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.20%
41) Toluene-d8	7.34	98	75341	4.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.20%
45) trans-1,3-Dichloropropene-	7.65	79	7670	3.67	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	73.40%
48) 2-Hexanone-d5	8.12	63	41261	43.04	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	86.08%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	15890	3.83	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	76.60%
65) 1,2-Dichlorobenzene-d4	11.65	152	20002	4.60	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	2872	0.583	ug/L	99
17) Methyl tert-butyl Ether	2.79	73	1838	0.159	ug/L #	1
19) 1,1-Dichloroethane	3.21	63	5203	0.532	ug/L	98
21) 2-Butanone	4.13	43	139181	99.440	ug/L #	57
22) cis-1,2-Dichloroethene	3.94	96	3550	0.583	ug/L	84
25) Chloroform	4.41	83	4964	0.479	ug/L	95
27) 1,2-Dichloroethane	5.07	62	592	0.087	ug/L #	79
30) Cyclohexane	4.70	56	1480	0.159	ug/L	99
34) Trichloroethene	5.94	95	10732	1.956	ug/L	98
35) Methylcyclohexane	6.09	83	6474	0.700	ug/L #	16
37) 1,2-Dichloropropane	6.10	63	3364	0.651	ug/L #	88
39) cis-1,3-Dichloropropene	7.02	75	667	0.091	ug/L #	66
46) trans-1,3-Dichloropropene	7.65	75	401	0.066	ug/L #	44
49) Tetrachloroethene	8.00	164	17099	4.342	ug/L	98
50) 2-Hexanone	8.12	43	5638	2.516	ug/L #	70
51) Dibromochloromethane	7.99	129	16611	4.617	ug/L #	10
70) Naphthalene	13.53	128	3833	0.356	ug/L #	92

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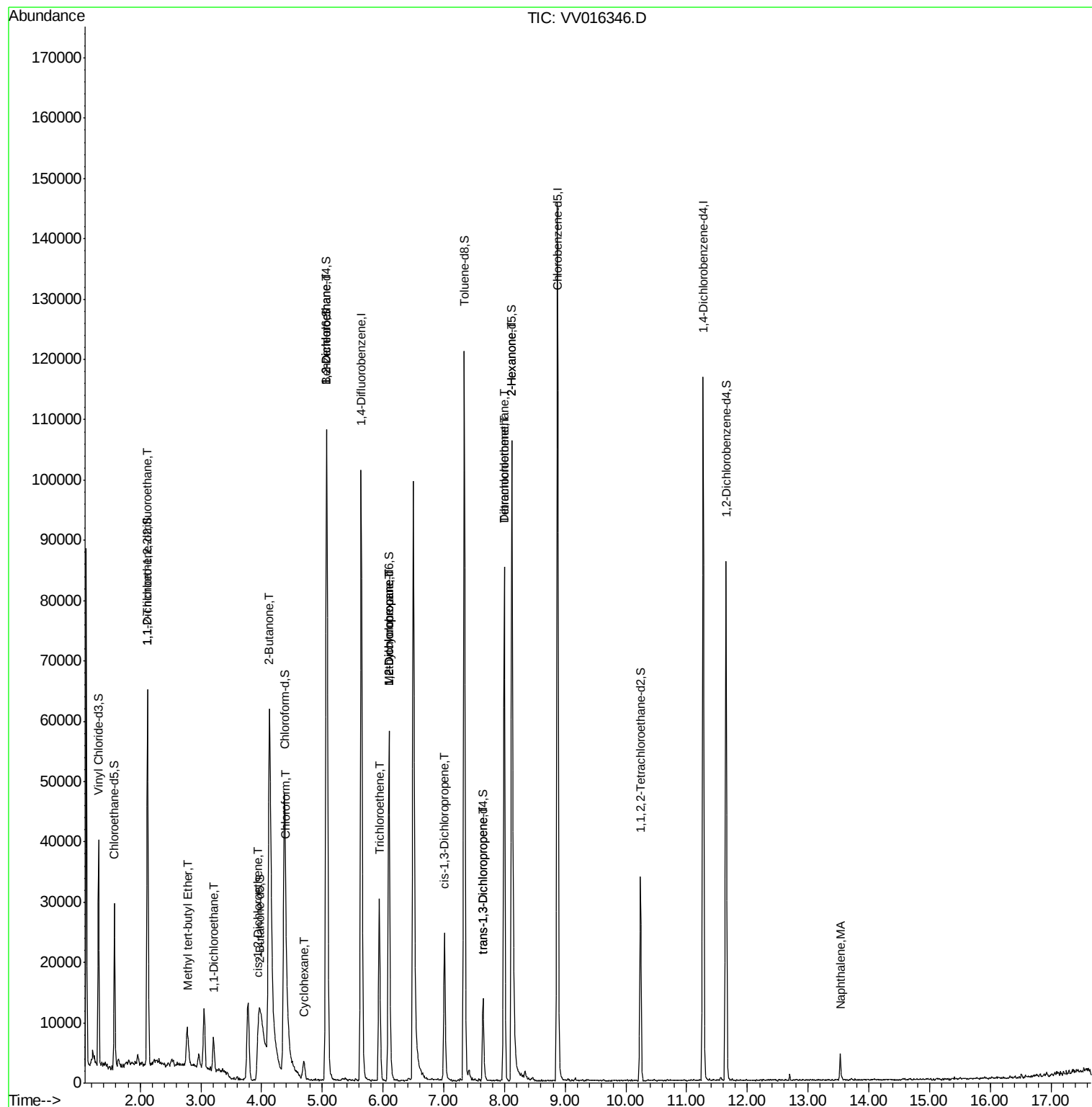
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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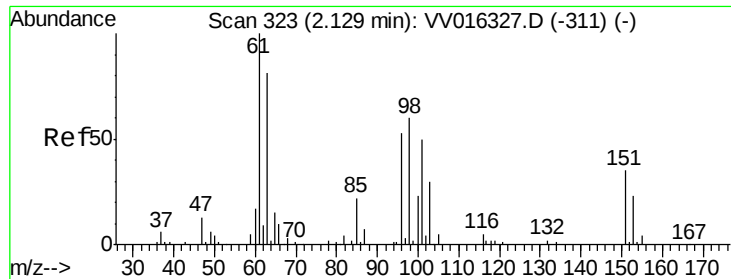
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#10

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

Concen: 0.583 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV016346.D

Acq: 30 May 2020 06:02

Instrument :

MSVOA_V

ClientSampled :

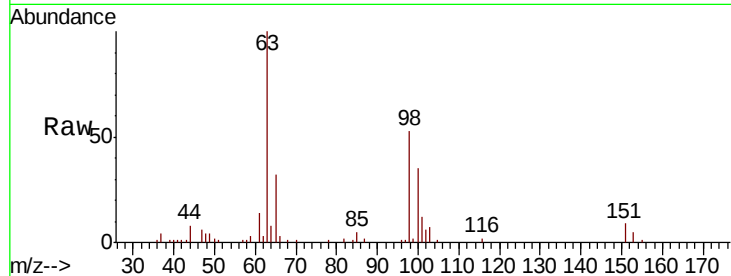
Tot Ion:101 Resp: 2872

Ion Ratio Lower Upper

101 100

85 42.5 35.0 52.6

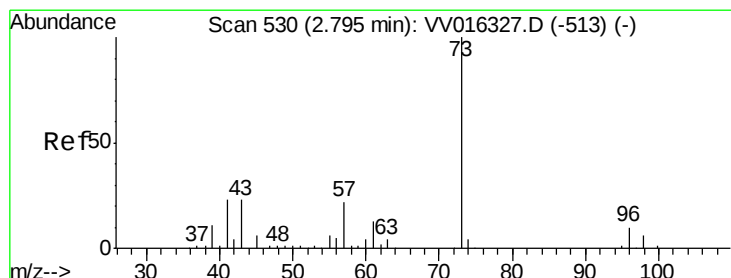
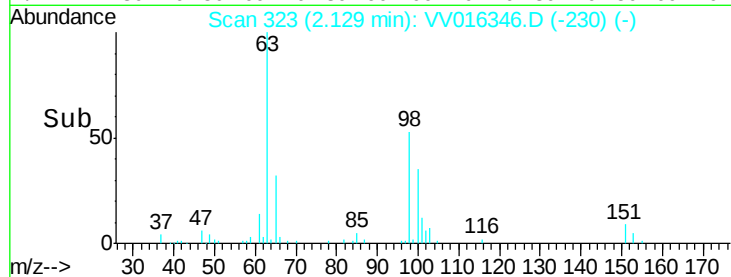
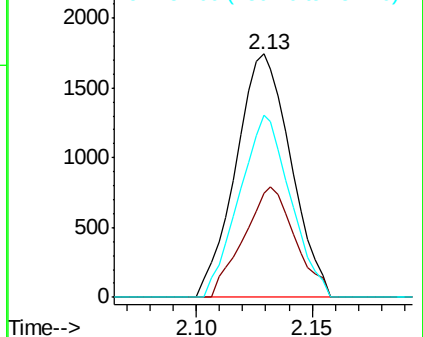
151 69.9 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#17

Methyl tert-butyl Ether

Concen: 0.159 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV016346.D

Acq: 30 May 2020 06:02

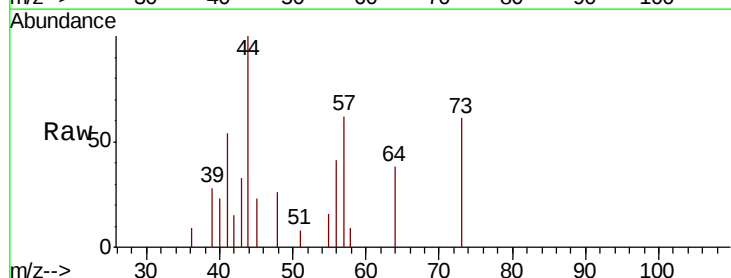
Tgt Ion: 73 Resp: 1838

Ion Ratio Lower Upper

73 100

43 66.9 17.8 26.8#

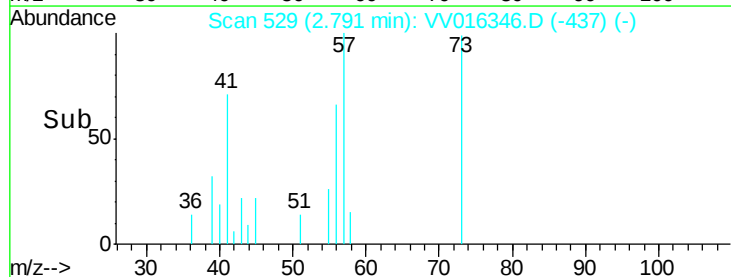
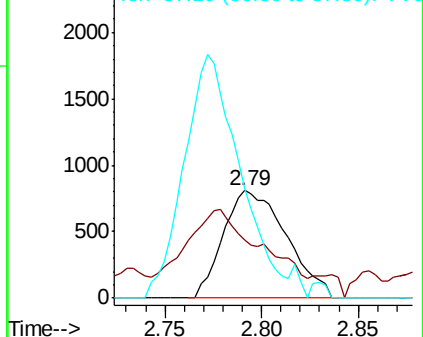
57 203.8 18.9 28.3#

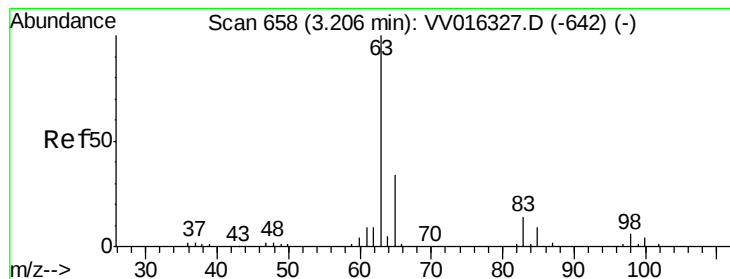


Abundance Ion 73.10 (72.80 to 73.80): VV0

Ion 43.05 (42.75 to 43.75): VV0

Ion 57.10 (56.80 to 57.80): VV0





#19

1,1-Dichloroethane

Concen: 0.532 ug/L

RT: 3.21 min Scan# 658

Delta R.T. -0.00 min

Lab File: VV016346.D

Acq: 30 May 2020 06:02

Instrument :

MSVOA_V

ClientSampleId :

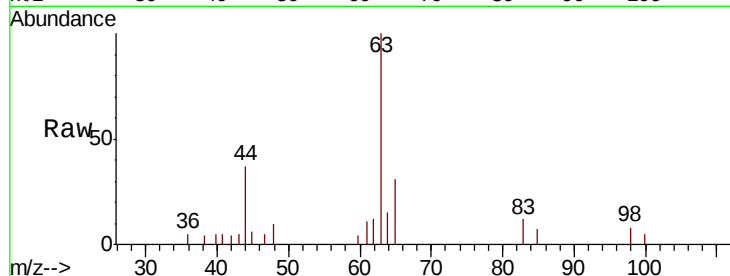
Tot Ion: 63 Resp: 5203

Ion Ratio Lower Upper

63 100

65 30.7 22.3 41.5

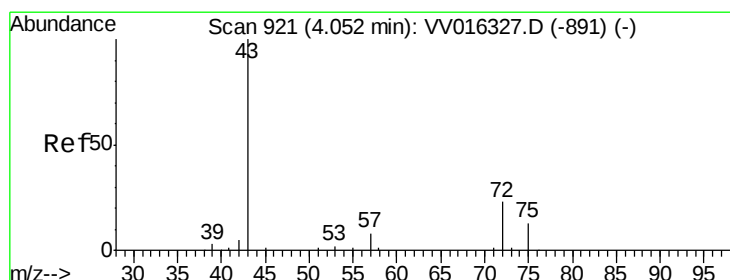
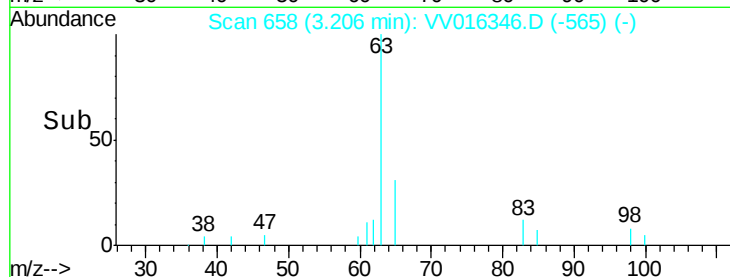
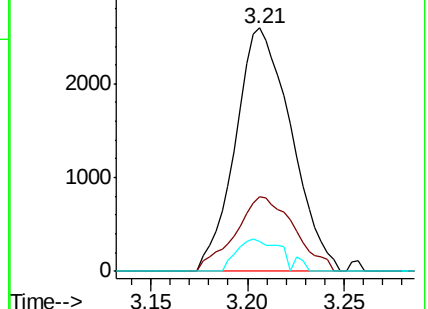
83 12.2 9.4 17.4



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0



#21

2-Butanone

Concen: 99.440 ug/L

RT: 4.13 min Scan# 945

Delta R.T. 0.08 min

Lab File: VV016346.D

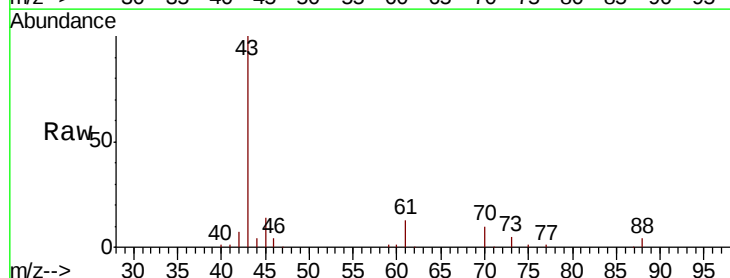
Acq: 30 May 2020 06:02

Tgt Ion: 43 Resp: 139181

Ion Ratio Lower Upper

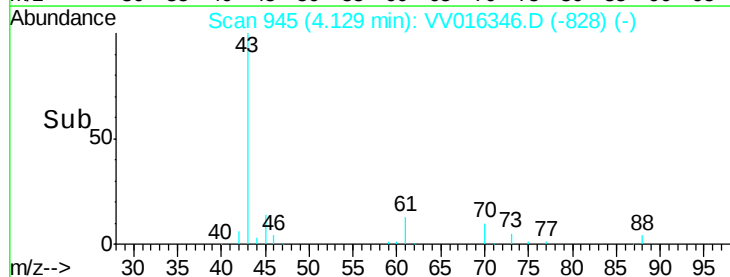
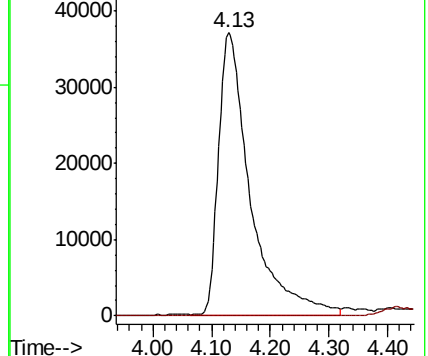
43 100

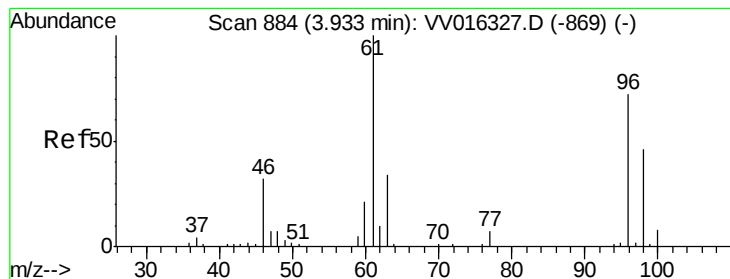
72 0.0 9.7 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 72.00 (71.70 to 72.70): VV0





#22

cis-1,2-Dichloroethene

Concen: 0.583 ug/L

RT: 3.94 min Scan# 885

Delta R.T. 0.00 min

Lab File: VV016346.D

Acq: 30 May 2020 06:02

Instrument :
MSVOA_V
ClientSampled :

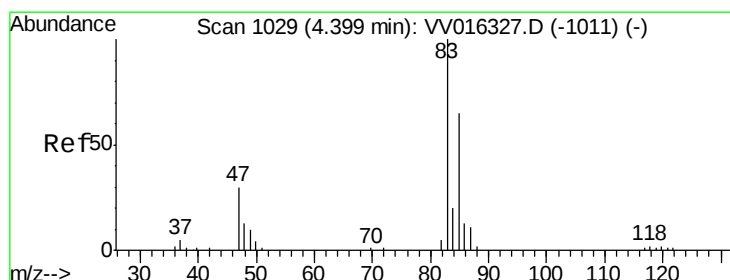
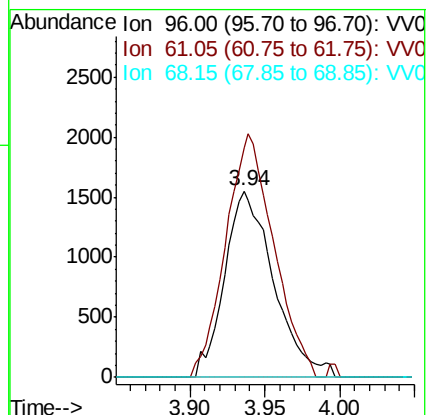
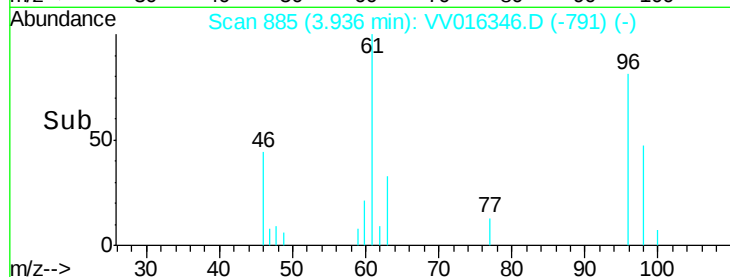
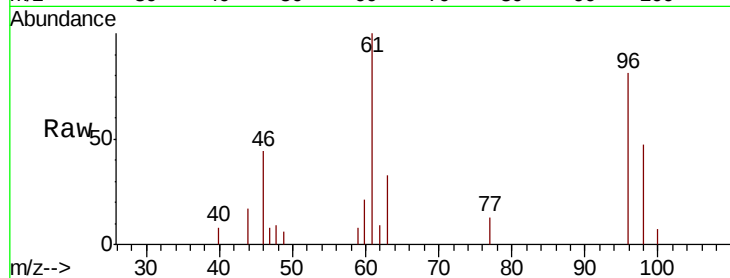
Tot Ion: 96 Resp: 3550

Ion Ratio Lower Upper

96 100

61 123.0 99.7 185.1

68 0.0 0.0 0.0



#25

Chloroform

Concen: 0.479 ug/L

RT: 4.41 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VV016346.D

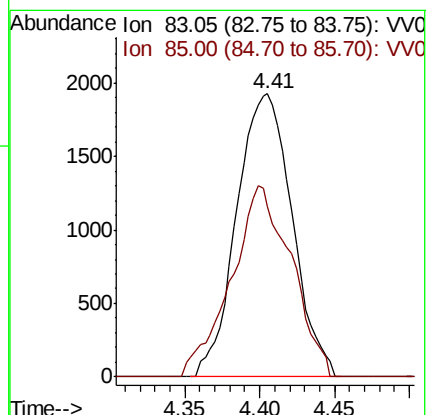
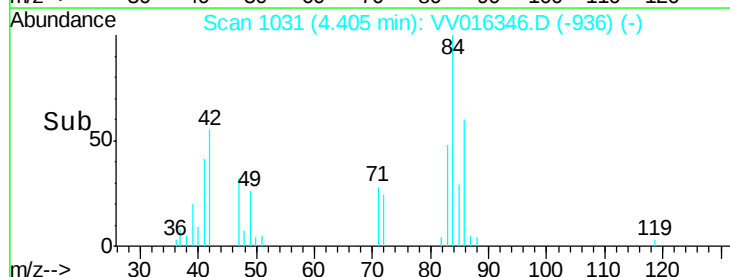
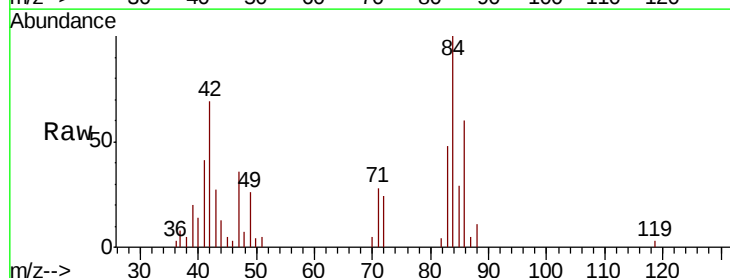
Acq: 30 May 2020 06:02

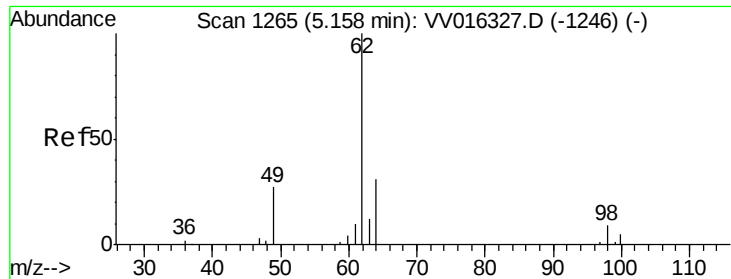
Tgt Ion: 83 Resp: 4964

Ion Ratio Lower Upper

83 100

85 60.2 45.1 83.7

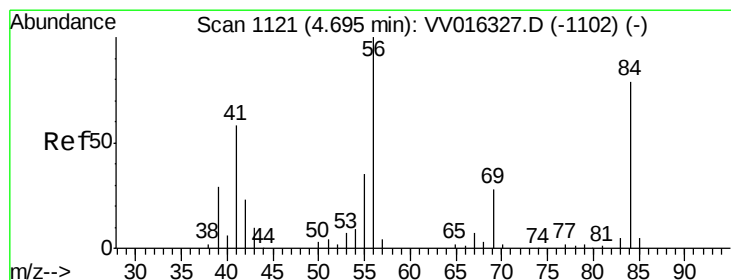
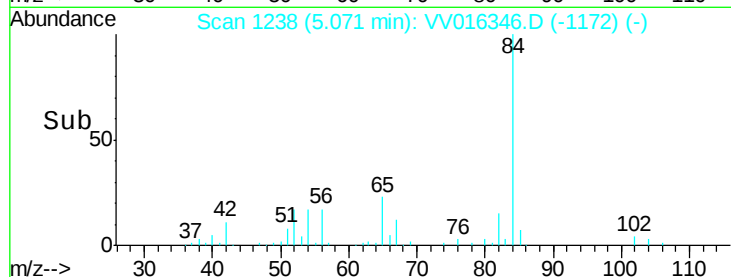
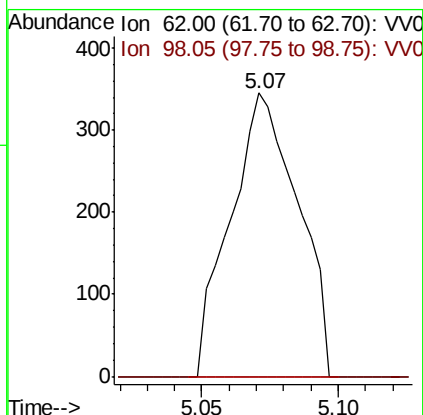
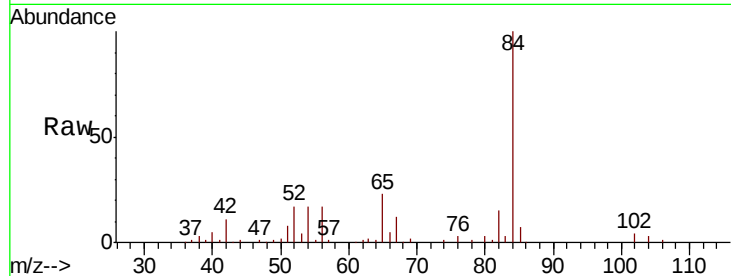




#27
 1,2-Dichloroethane
 Concen: 0.087 ug/L
 RT: 5.07 min Scan# 1238
 Delta R.T. -0.09 min
 Lab File: VV016346.D
 Acq: 30 May 2020 06:02

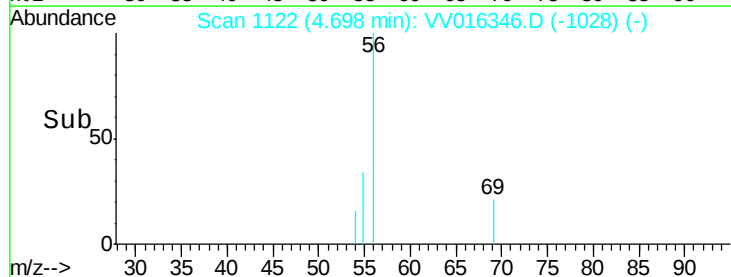
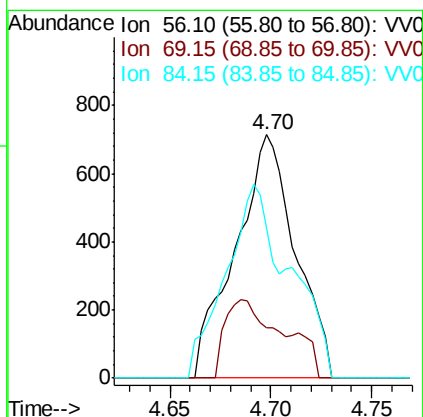
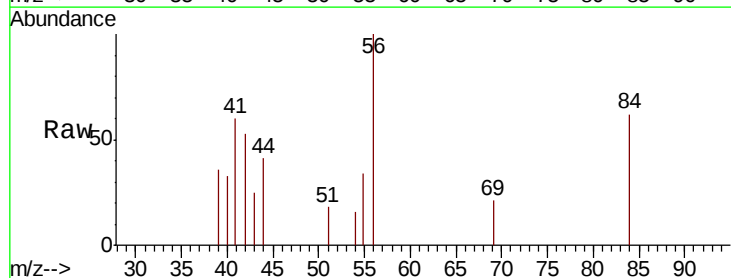
Instrument :
 MSVOA_V
 ClientSampleId :

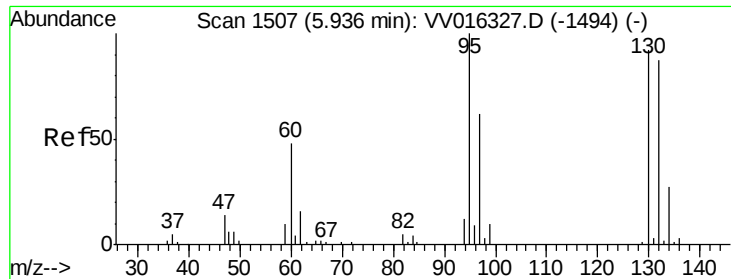
Tot Ion: 62 Resp: 592
 Ion Ratio Lower Upper
 62 100
 98 0.0 5.7 8.5#



#30
 Cyclohexane
 Concen: 0.159 ug/L
 RT: 4.70 min Scan# 1122
 Delta R.T. 0.00 min
 Lab File: VV016346.D
 Acq: 30 May 2020 06:02

Tgt Ion: 56 Resp: 1480
 Ion Ratio Lower Upper
 56 100
 69 31.2 24.6 36.8
 84 84.5 67.1 100.7





#34

Trichloroethene

Concen: 1.956 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV016346.D

Acq: 30 May 2020 06:02

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 95 Resp: 10732

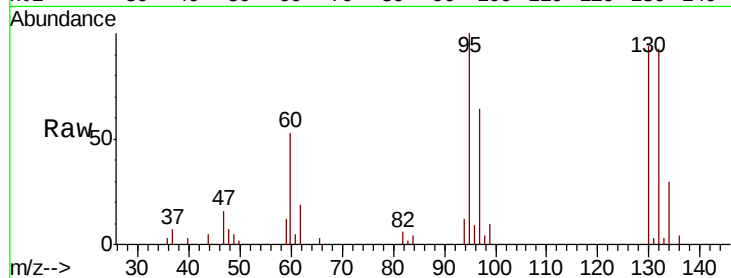
Ion Ratio Lower Upper

95 100

97 63.8 43.6 81.0

132 93.4 63.9 118.7

130 93.7 65.2 121.0

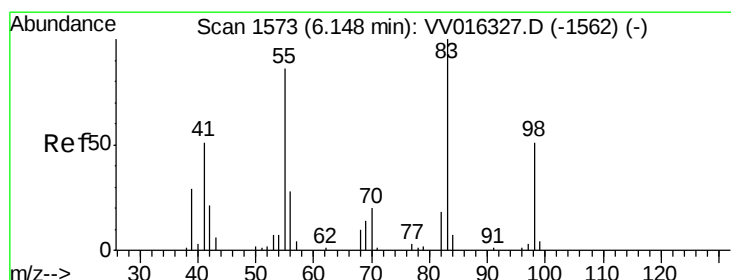
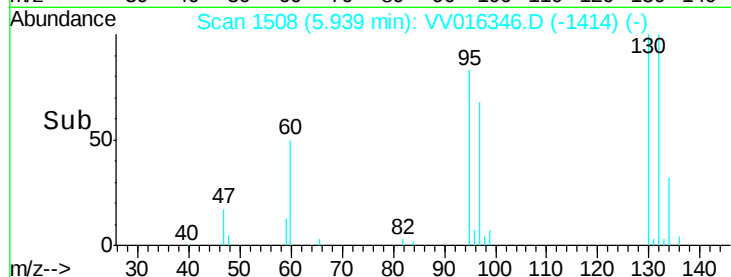
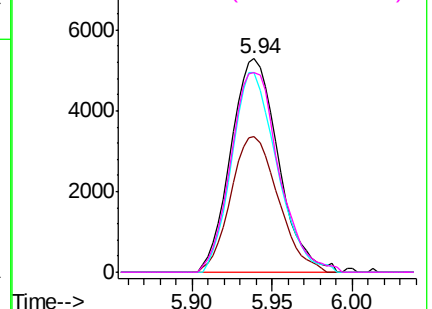


Abundance Ion 95.00 (94.70 to 95.70): VV016327.D (-1494) (-)

Ion 96.95 (96.65 to 97.65): VV016327.D (-1494) (-)

Ion 131.95 (131.65 to 132.65): VV016327.D (-1494) (-)

Ion 129.95 (129.65 to 130.65): VV016327.D (-1494) (-)



#35

Methylcyclohexane

Concen: 0.700 ug/L

RT: 6.09 min Scan# 1556

Delta R.T. -0.05 min

Lab File: VV016346.D

Acq: 30 May 2020 06:02

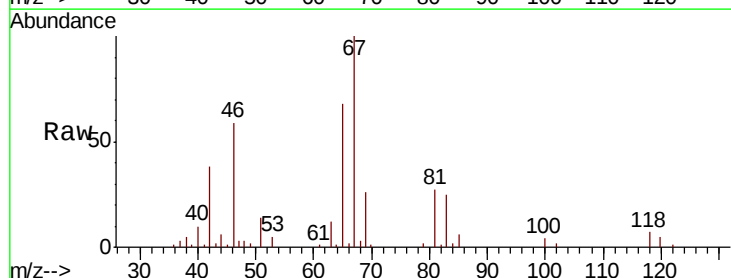
Tgt Ion: 83 Resp: 6474

Ion Ratio Lower Upper

83 100

55 0.3 65.4 98.0#

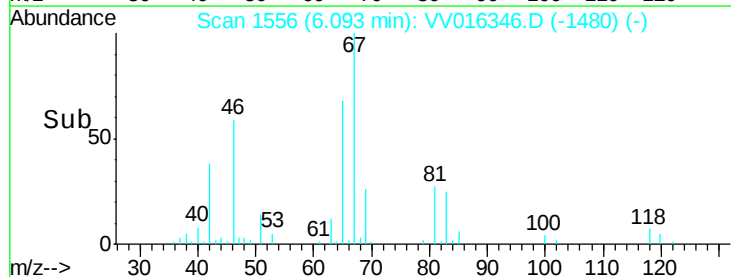
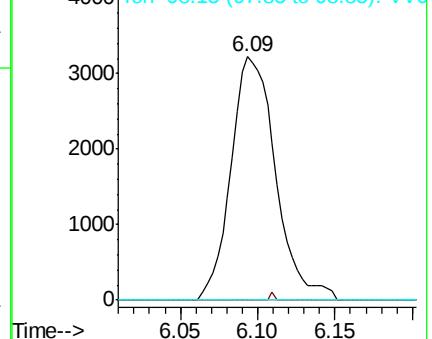
98 0.8 39.3 58.9#

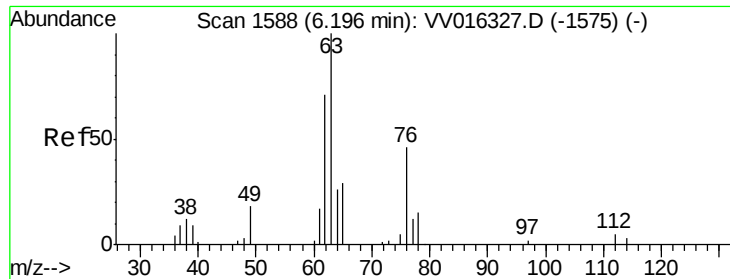


Abundance Ion 83.15 (82.85 to 83.85): VV016327.D (-1562) (-)

Ion 55.10 (54.80 to 55.80): VV016327.D (-1562) (-)

Ion 98.15 (97.85 to 98.85): VV016327.D (-1562) (-)





#37

1,2-Dichloropropane

Concen: 0.651 ug/L

RT: 6.10 min Scan# 1557

Delta R.T. -0.10 min

Lab File: VV016346.D

Acq: 30 May 2020 06:02

Instrument :

MSVOA_V

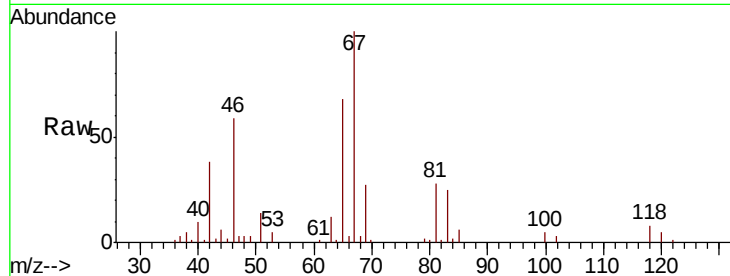
ClientSampleId :

Tot Ion: 63 Resp: 3364

Ion Ratio Lower Upper

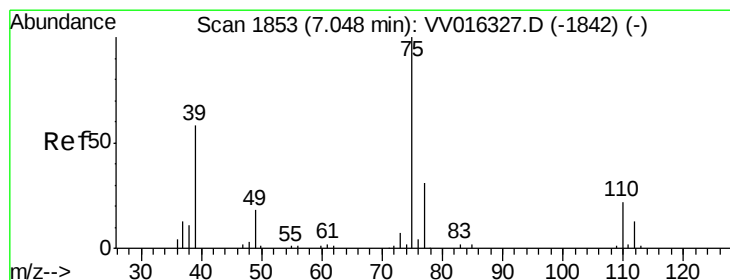
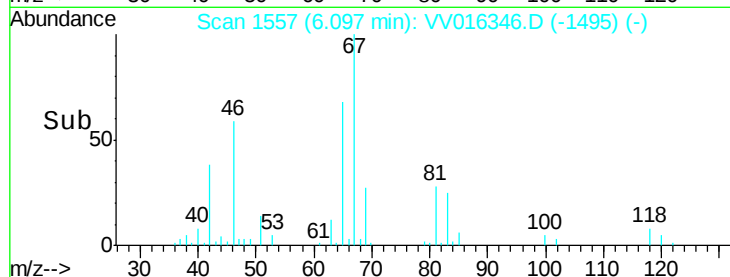
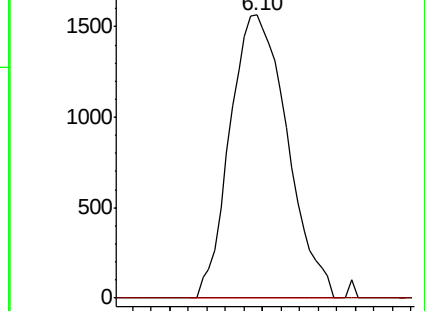
63 100

112 0.0 3.1 4.7#



Abundance Ion 63.10 (62.80 to 63.80): VV016327.D (-1575) (-)

Ion 112.10 (111.80 to 112.80): VV016327.D (-1575) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.091 ug/L

RT: 7.02 min Scan# 1843

Delta R.T. -0.03 min

Lab File: VV016346.D

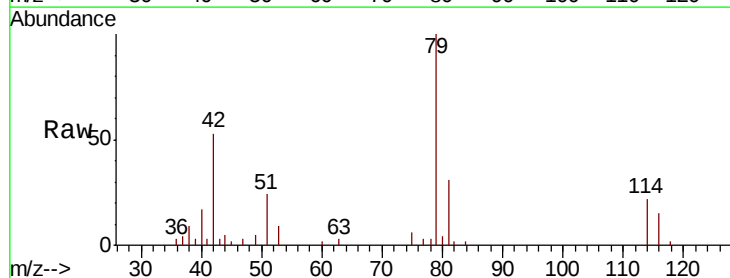
Acq: 30 May 2020 06:02

Tgt Ion: 75 Resp: 667

Ion Ratio Lower Upper

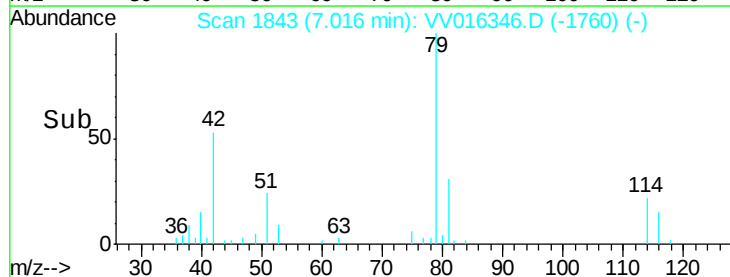
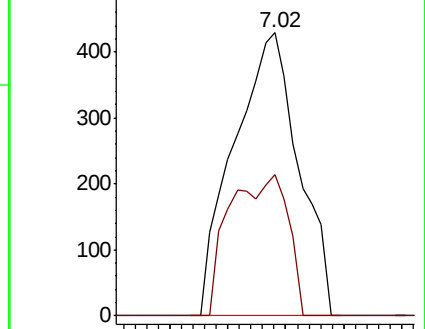
75 100

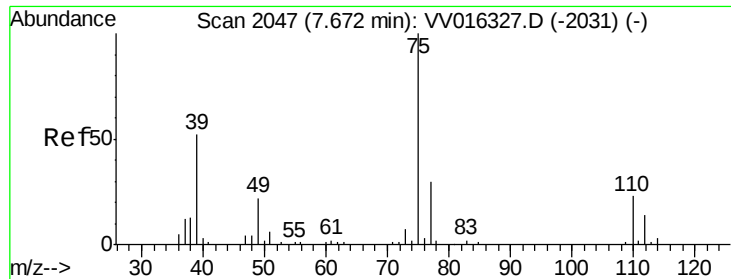
77 49.9 21.7 40.3#



Abundance Ion 75.05 (74.75 to 75.75): VV016327.D (-1842) (-)

Ion 77.05 (76.75 to 77.75): VV016327.D (-1842) (-)

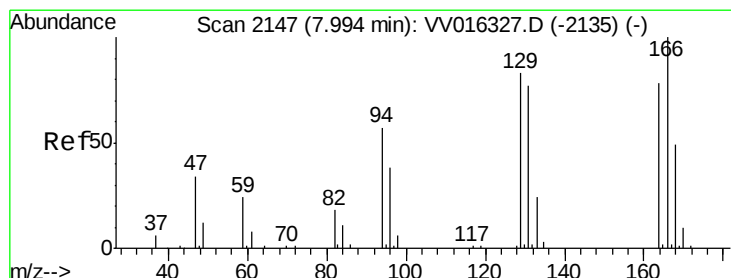
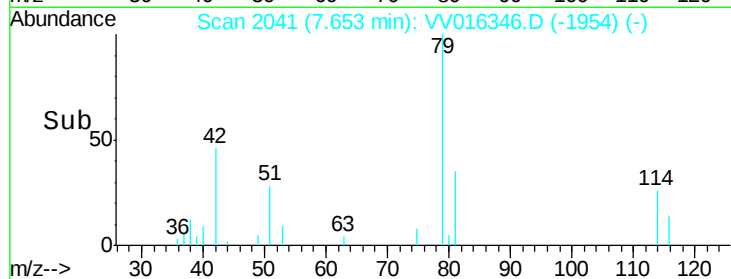
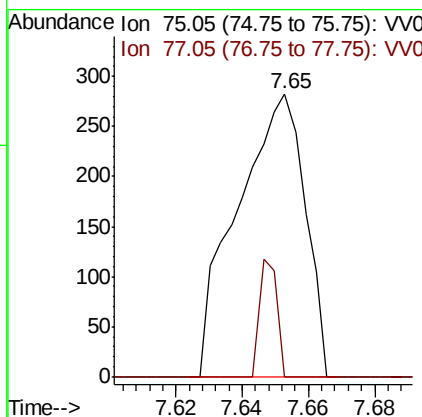
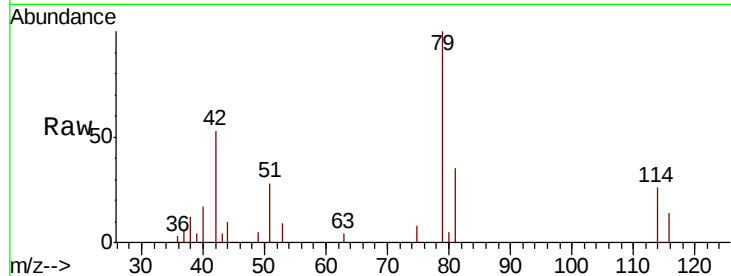




#46
trans-1,3-Dichloropropene
Concen: 0.066 ug/L
RT: 7.65 min Scan# 2041
Delta R.T. -0.02 min
Lab File: VV016346.D
Acq: 30 May 2020 06:02

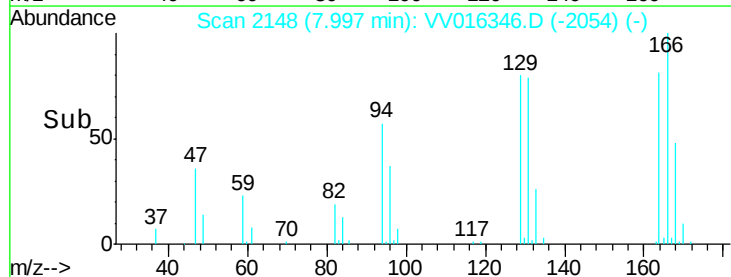
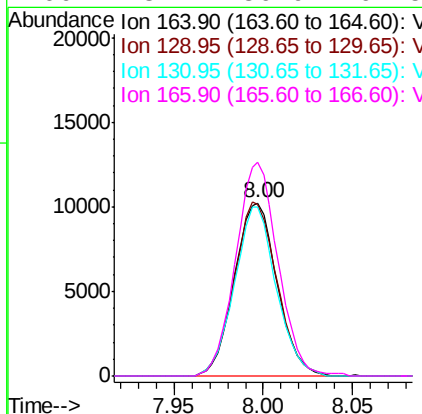
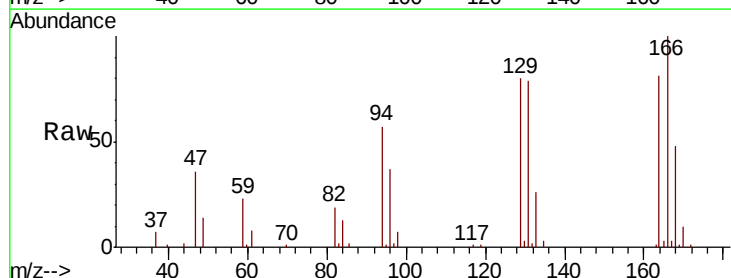
Instrument :
MSVOA_V
ClientSampled :

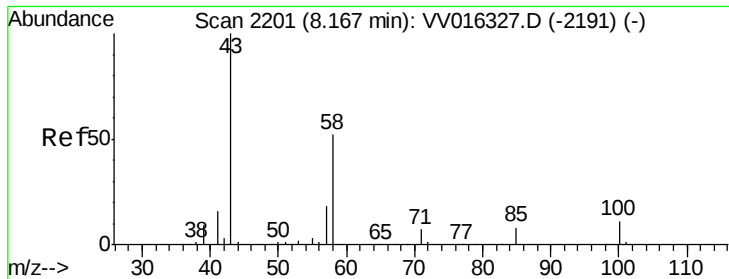
Tot Ion: 75 Resp: 401
Ion Ratio Lower Upper
75 100
77 0.0 21.7 40.3#



#49
Tetrachloroethene
Concen: 4.342 ug/L
RT: 8.00 min Scan# 2148
Delta R.T. 0.00 min
Lab File: VV016346.D
Acq: 30 May 2020 06:02

Tgt Ion: 164 Resp: 17099
Ion Ratio Lower Upper
164 100
129 99.2 70.7 131.3
131 98.0 66.6 123.8
166 123.4 86.9 161.5





#50

2-Hexanone

Concen: 2.516 ug/L

RT: 8.12 min Scan# 2186

Delta R.T. -0.05 min

Lab File: VV016346.D

Acq: 30 May 2020 06:02

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 5638

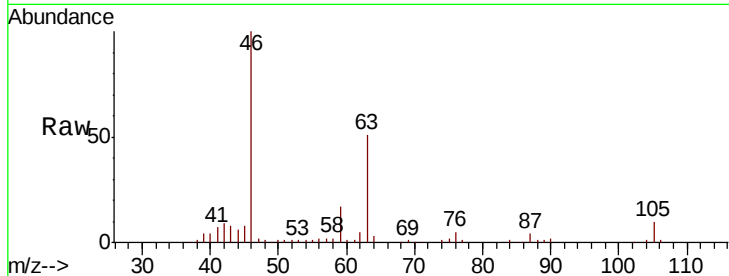
Ion Ratio Lower Upper

43 100

58 26.8 41.4 62.0#

57 26.3 15.0 22.4#

100 0.0 9.0 13.4#

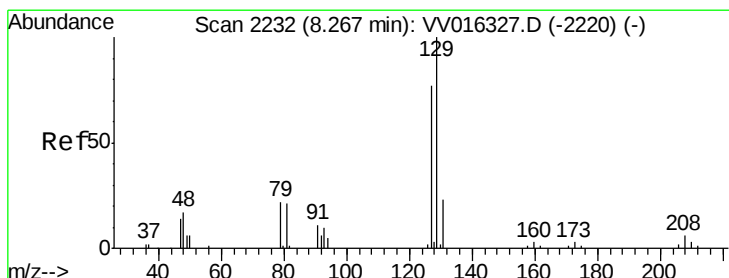
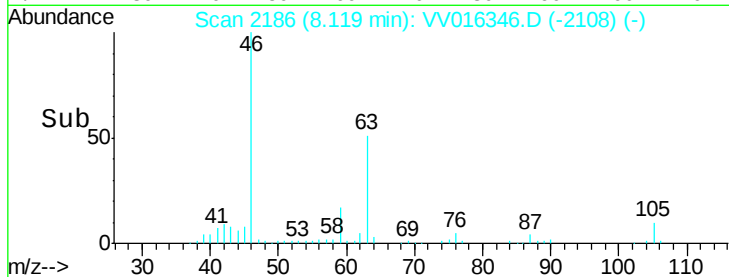
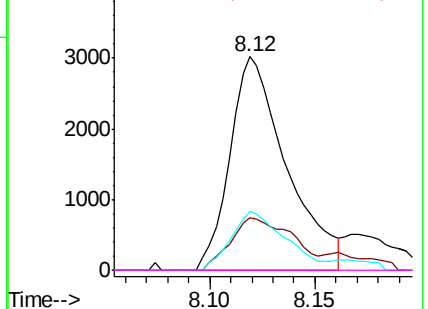


Abundance Ion 43.05 (42.75 to 43.75): VV016327.D (-2191) (-)

Ion 58.05 (57.75 to 58.75): VV016327.D (-2191) (-)

Ion 57.20 (56.90 to 57.90): VV016327.D (-2191) (-)

Ion 100.15 (99.85 to 100.85): VV016327.D (-2191) (-)



#51

Dibromochloromethane

Concen: 4.617 ug/L

RT: 7.99 min Scan# 2147

Delta R.T. -0.27 min

Lab File: VV016346.D

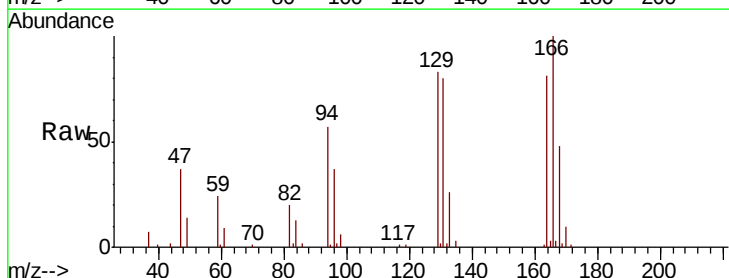
Acq: 30 May 2020 06:02

Tgt Ion: 129 Resp: 16611

Ion Ratio Lower Upper

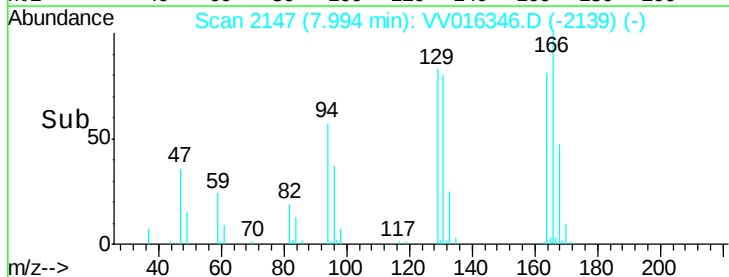
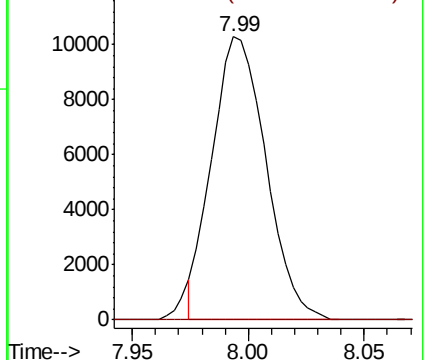
129 100

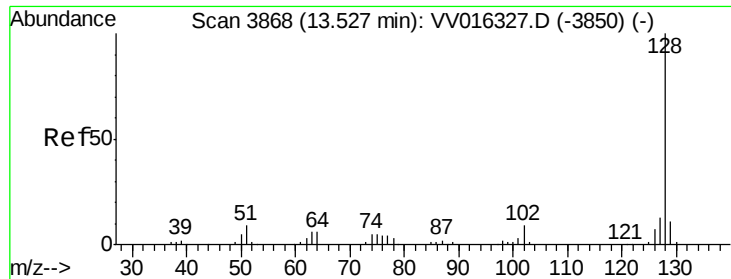
127 0.0 55.2 102.4#



Abundance Ion 128.95 (128.65 to 129.65): VV016327.D (-2220) (-)

Ion 126.90 (126.60 to 127.60): VV016327.D (-2220) (-)





#70

Naphthalene

Concen: 0.356 ug/L

RT: 13.53 min Scan# 3869

Delta R.T. 0.00 min

Lab File: VV016346.D

Acq: 30 May 2020 06:02

Instrument :

MSVOA_V

ClientSampleId :

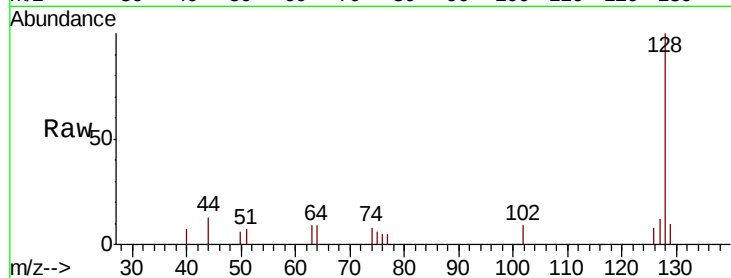
Tot Ion:128 Resp: 3833

Ion Ratio Lower Upper

128 100

129 7.3 8.6 13.0#

127 10.3 10.6 15.8#



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

