

Data File : VV008695.D
Acq On : 21 Nov 2018 12:51
Operator : SY/MD
Sample : J6026-06
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
H0FK5

Quant Time: Nov 22 00:40:25 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111718WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Nov 22 00:36:45 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	4234	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	3740	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	1496	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	1410	7.50	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	150.00%#
7) Chloroethane-d5	1.59	69	1192	7.70	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	154.00%#
11) 1,1-Dichloroethene-d2	2.14	63	1992	5.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	104.40%
20) 2-Butanone-d5	3.96	46	2187	32.50	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	65.00%
24) Chloroform-d	4.41	84	2233	4.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.00%
26) 1,2-Dichloroethane-d4	5.09	65	1123	4.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.80%
32) Benzene-d6	5.10	84	4818	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.80%
36) 1,2-Dichloropropane-d6	6.13	67	1369	4.35	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.00%
41) Toluene-d8	7.36	98	4204	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.80%
43) trans-1,3-Dichloropropene-	7.67	79	285	2.37	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	47.40%#
46) 2-Hexanone-d5	8.14	63	1174	21.60	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	43.20%#
57) 1,1,2,2-Tetrachloroethane-	10.26	84	906	4.12	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	82.40%
64) 1,2-Dichlorobenzene-d4	11.68	152	1310	4.85	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.00%

Target Compounds

						Qvalue
3) Chloromethane	1.25	50	133	0.456	ug/L #	41
5) Vinyl chloride	1.32	62	740	2.764	ug/L #	70
6) Bromomethane	1.54	94	107	0.641	ug/L	78
8) Chloroethane	1.60	64	115	0.733	ug/L #	42
13) Acetone	2.19	43	676	19.262	ug/L	58
14) Carbon disulfide	2.32	76	334	0.545	ug/L #	21
15) Methyl Acetate	2.47	43	741	8.439	ug/L #	54
16) Methylene chloride	2.54	84	81	0.339	ug/L #	54
17) Methyl tert-butyl Ether	2.81	73	17546	33.587	ug/L #	91
18) trans-1,2-Dichloroethene	2.80	96	1395	6.547	ug/L #	70
19) 1,1-Dichloroethane	3.24	63	889	1.649	ug/L #	89
22) cis-1,2-Dichloroethene	3.97	96	3703	11.514	ug/L	94
33) Benzene	5.15	78	1282	1.081	ug/L	100
34) Trichloroethene	5.97	95	182	0.581	ug/L	84
35) Methylcyclohexane	6.13	83	245	0.462	ug/L #	16
37) 1,2-Dichloropropane	6.14	63	41	0.132	ug/L #	89
40) 4-Methyl-2-pentanone	7.28	43	4164	22.826	ug/L #	94

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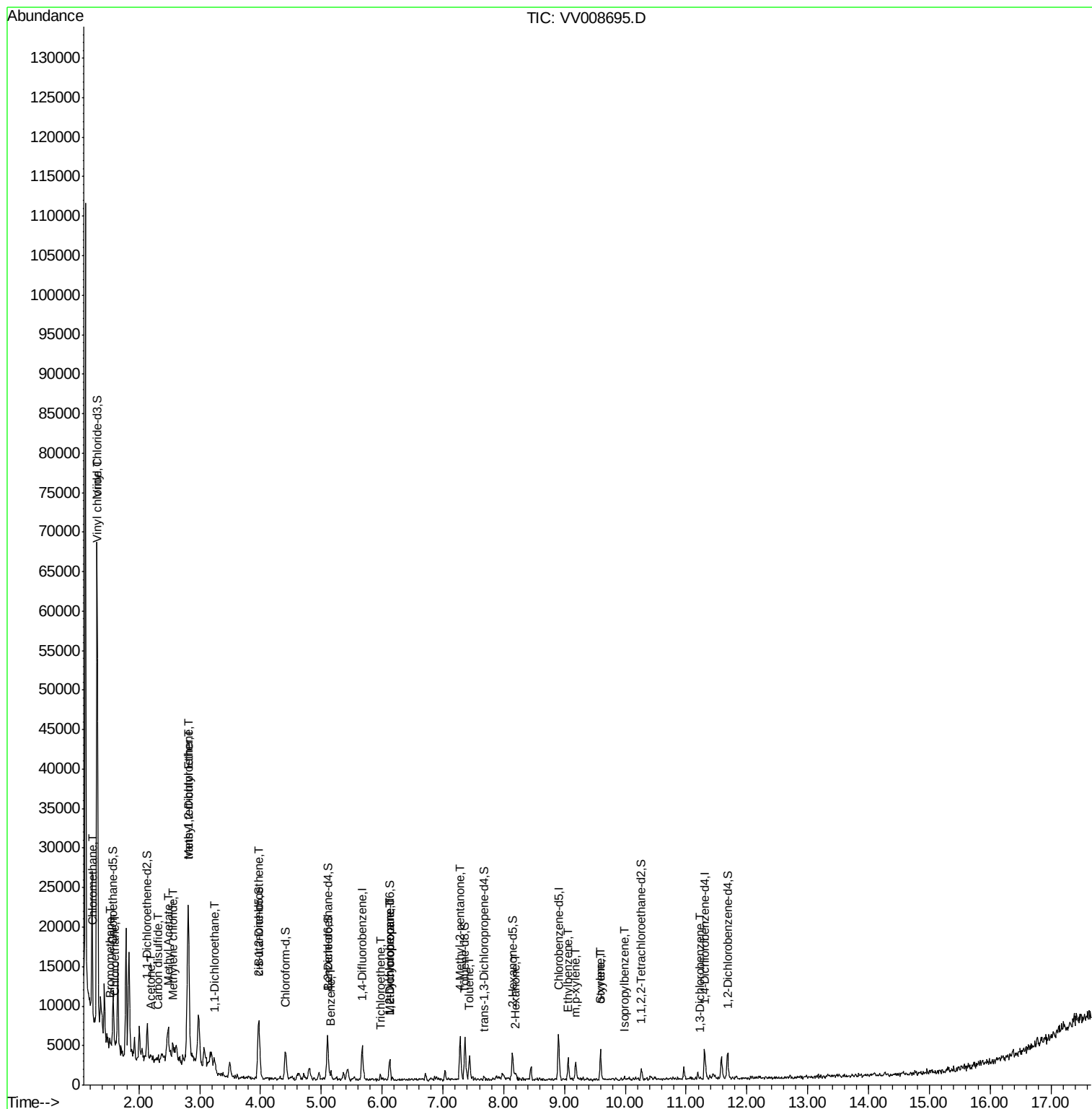
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.44	91	2420	1.959	ug/L	90
48) 2-Hexanone	8.19	43	308	2.501	ug/L #	39
52) Ethylbenzene	9.06	91	2334	1.716	ug/L	99
53) m,p-xylene	9.18	106	706	1.404	ug/L	80
54) o-xylene	9.59	106	934	1.909	ug/L	97
55) Styrene	9.60	104	111	0.141	ug/L #	67
56) Isopropylbenzene	9.98	105	345	0.263	ug/L #	65
62) 1,3-Dichlorobenzene	11.23	146	42	0.086	ug/L #	26

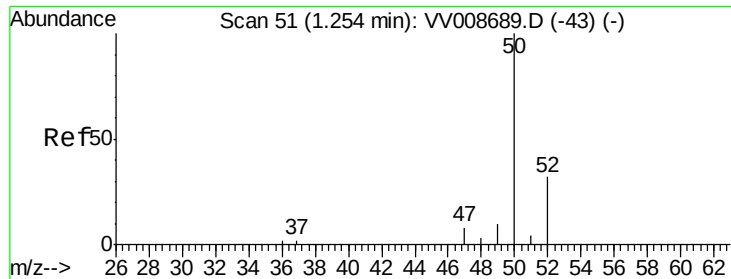
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.456 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.01 min

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Acq: 21 Nov 2018 12:51

Instrument :

MSVOA_V

ClientSampleId :

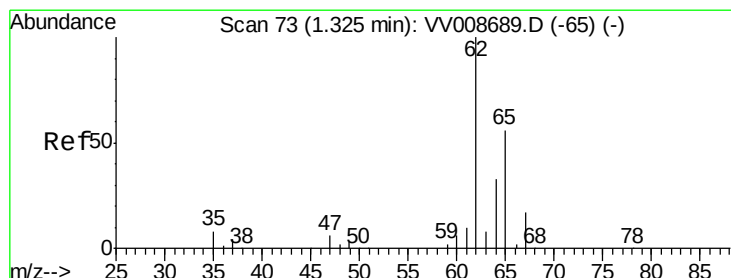
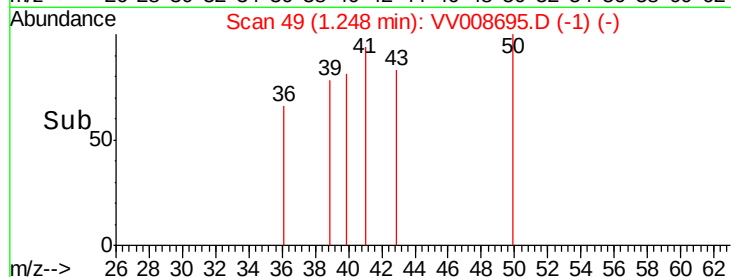
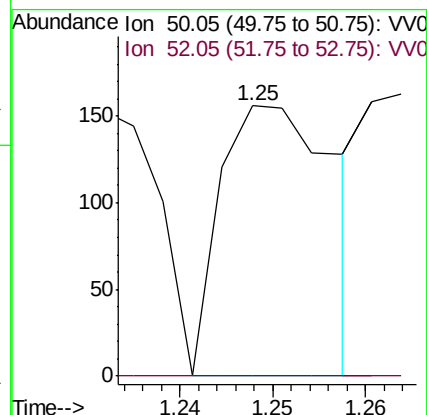
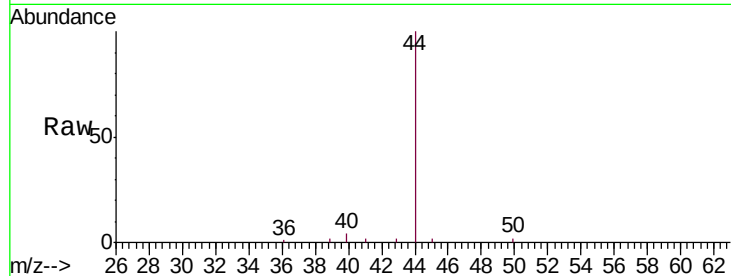
H0FK5

Tgt Ion: 50 Resp: 133

Ion Ratio Lower Upper

50 100

52 0.0 23.3 43.3#



#5

Vinyl chloride

Concen: 2.764 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV008695.D

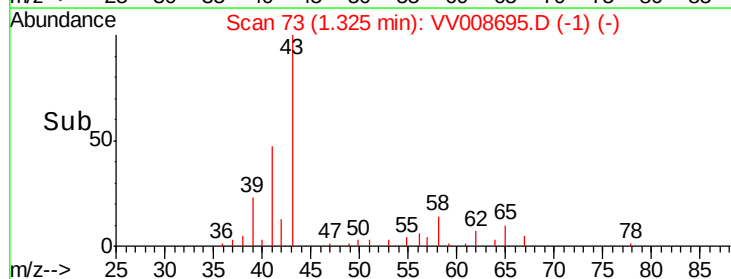
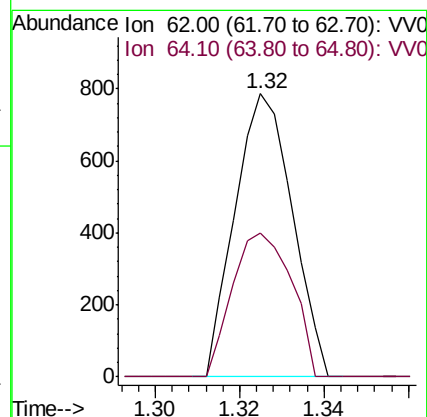
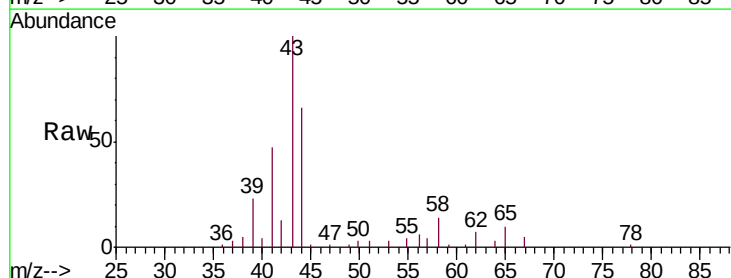
Acq: 21 Nov 2018 12:51

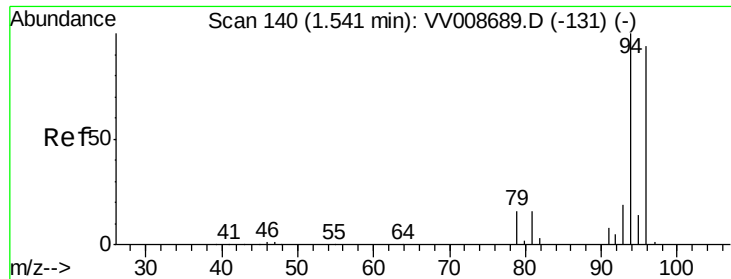
Tgt Ion: 62 Resp: 740

Ion Ratio Lower Upper

62 100

64 50.6 23.4 43.4#





#6

Bromomethane

Concen: 0.641 ug/L

RT: 1.54 min Scan# 140

Delta R.T. -0.00 min

Lab File: VV008695.D

Acq: 21 Nov 2018 12:51

Instrument :

MSVOA_V

ClientSampleId :

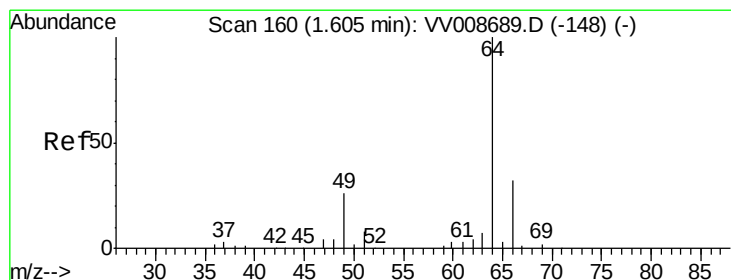
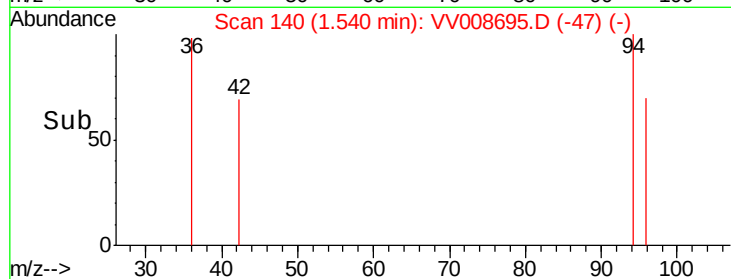
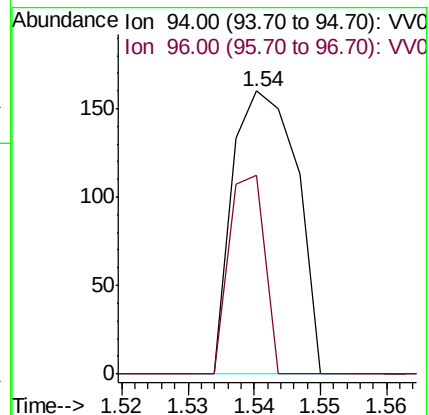
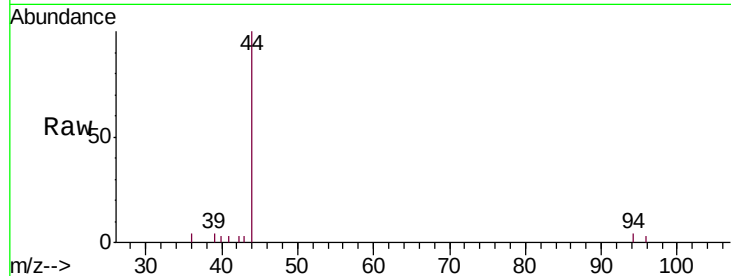
H0FK5

Tgt Ion: 94 Resp: 107

Ion Ratio Lower Upper

94 100

96 70.0 63.2 117.4



#8

Chloroethane

Concen: 0.733 ug/L

RT: 1.60 min Scan# 160

Delta R.T. -0.00 min

Lab File: VV008695.D

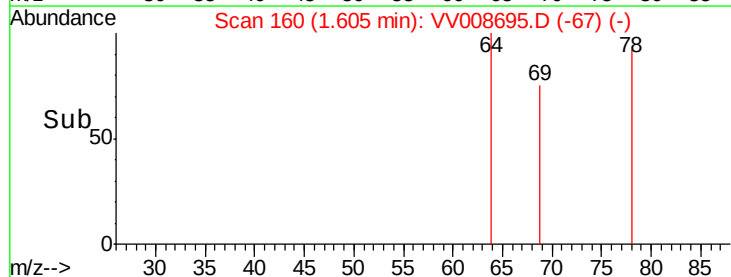
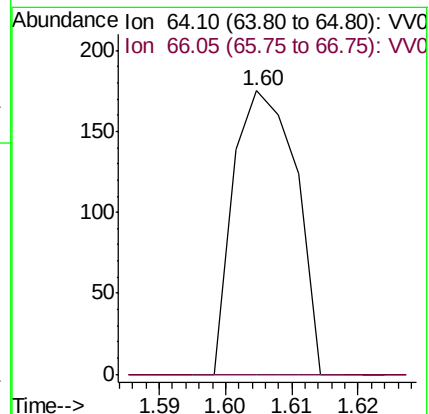
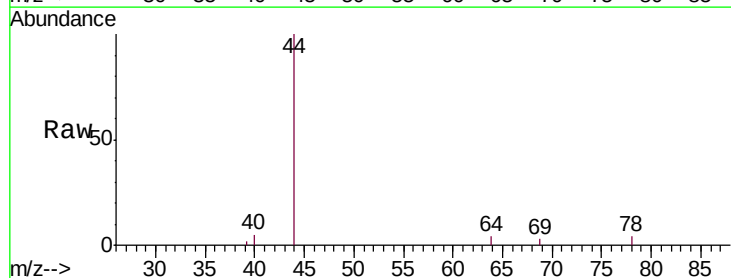
Acq: 21 Nov 2018 12:51

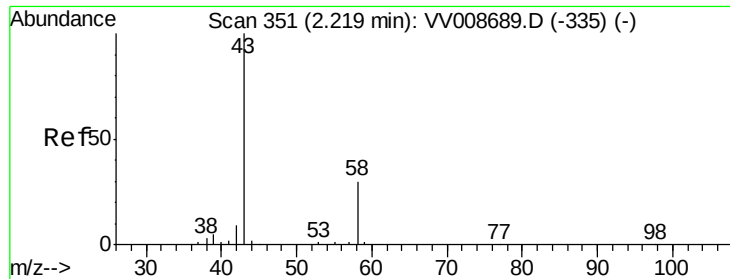
Tgt Ion: 64 Resp: 115

Ion Ratio Lower Upper

64 100

66 0.0 22.7 42.3#





#13

Acetone

Concen: 19.262 ug/L

RT: 2.19 min Scan# 343

Delta R.T. -0.03 min

Lab File: VV008695.D

Acq: 21 Nov 2018 12:51

Instrument :

MSVOA_V

ClientSampled :

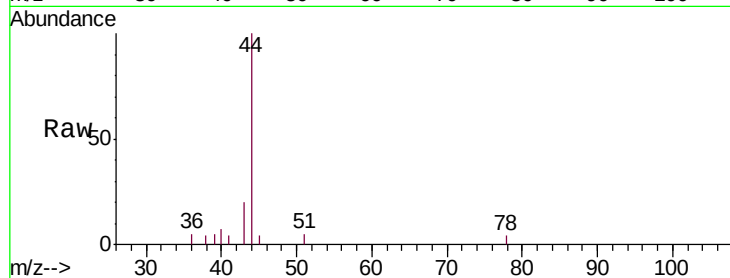
H0FK5

Tgt Ion: 43 Resp: 676

Ion Ratio Lower Upper

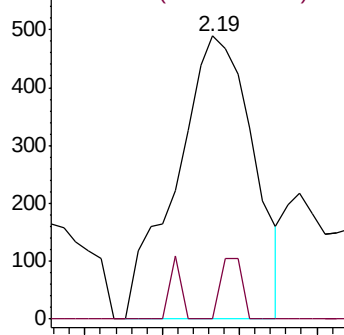
43 100

58 6.1 0.0 56.4

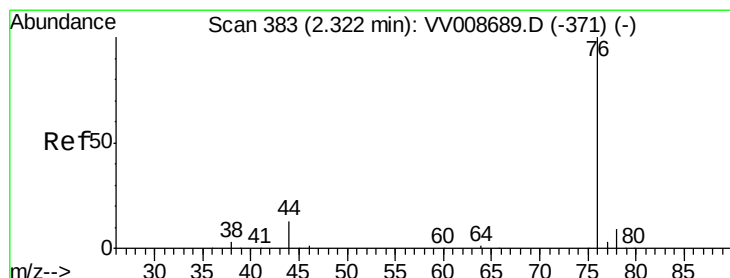
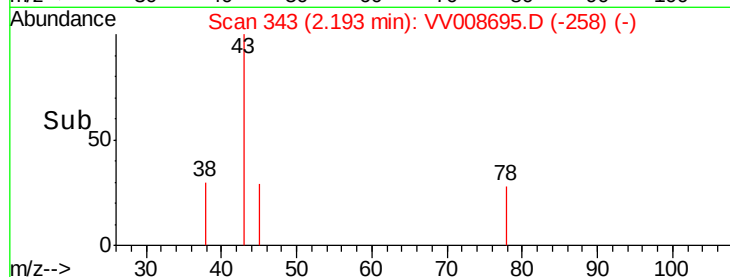


Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0



Time-->



#14

Carbon disulfide

Concen: 0.545 ug/L

RT: 2.32 min Scan# 383

Delta R.T. -0.00 min

Lab File: VV008695.D

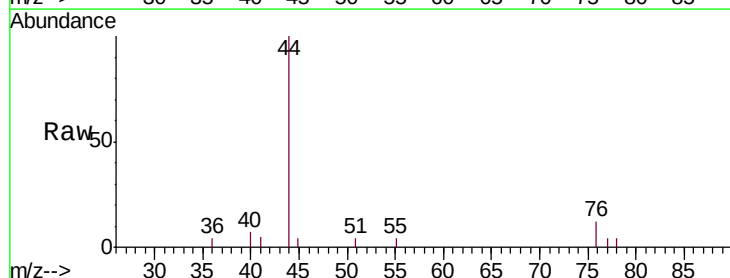
Acq: 21 Nov 2018 12:51

Tgt Ion: 76 Resp: 334

Ion Ratio Lower Upper

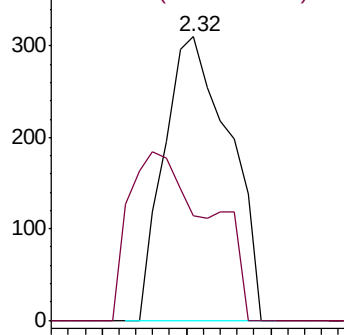
76 100

78 37.1 7.0 10.6#

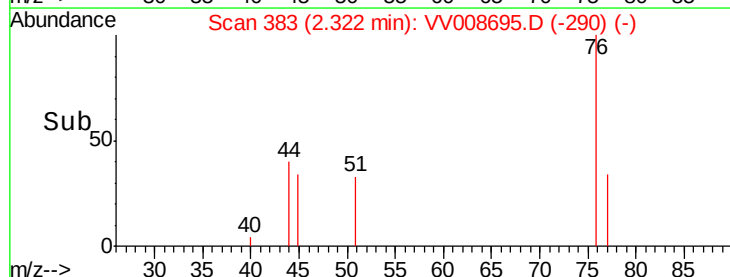


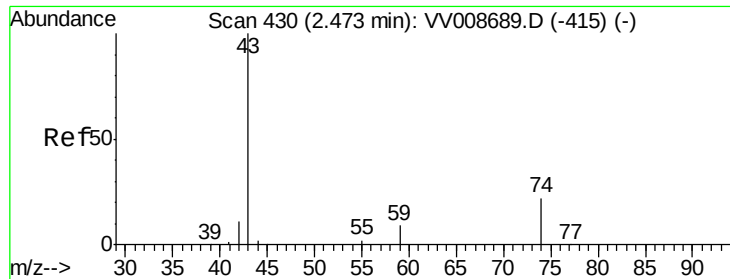
Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0



Time-->

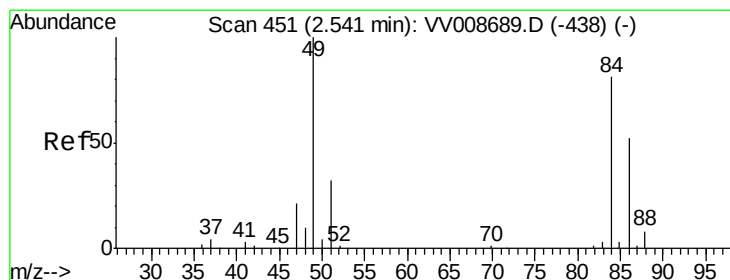
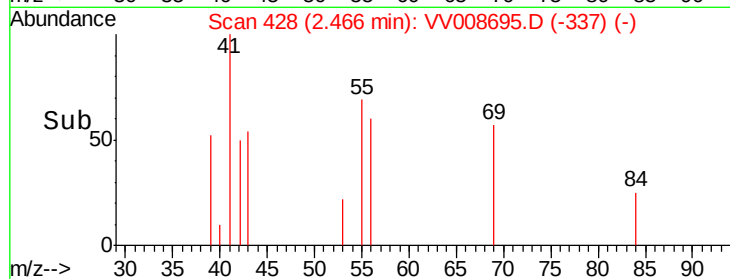
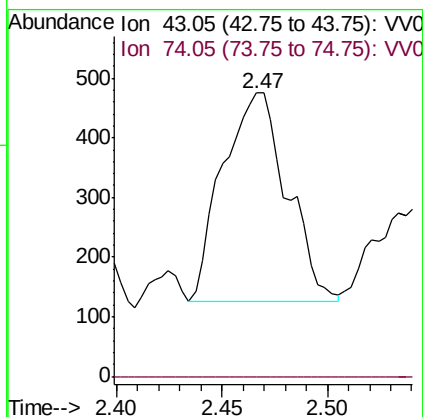
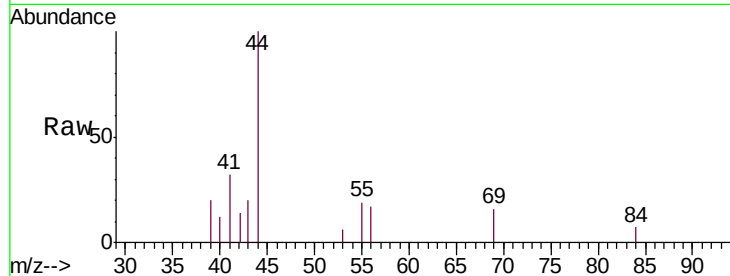




#15
Methyl Acetate
Concen: 8.439 ug/L
RT: 2.47 min Scan# 428
Delta R.T. -0.01 min
Lab File: VV008695.D
Acq: 21 Nov 2018 12:51

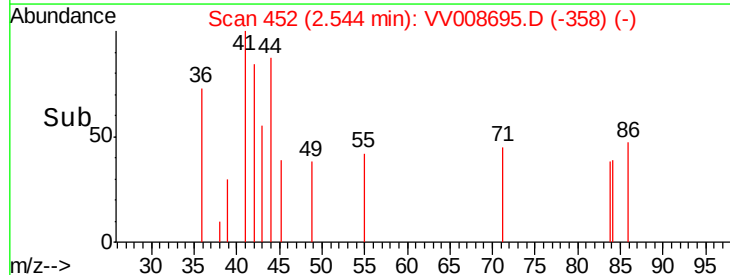
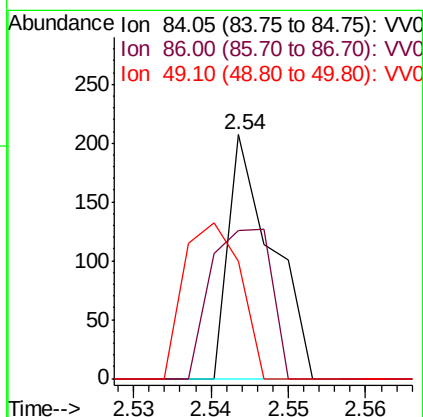
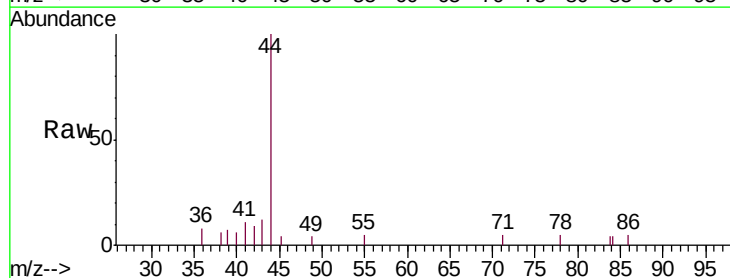
Instrument :
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ClientSampleId :
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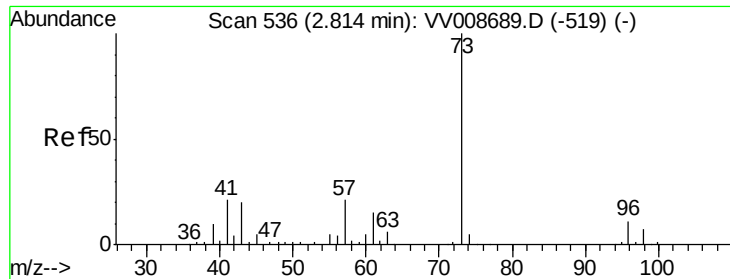
Tgt Ion: 43 Resp: 741
Ion Ratio Lower Upper
43 100
74 0.0 17.6 26.4#



#16
Methylene chloride
Concen: 0.339 ug/L
RT: 2.54 min Scan# 452
Delta R.T. 0.00 min
Lab File: VV008695.D
Acq: 21 Nov 2018 12:51

Tgt Ion: 84 Resp: 81
Ion Ratio Lower Upper
84 100
86 60.9 44.8 83.2
49 48.3 88.1 163.7#

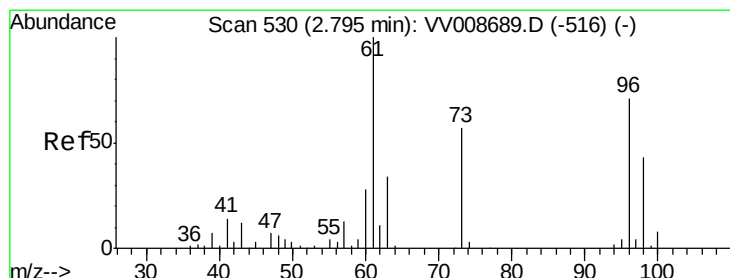
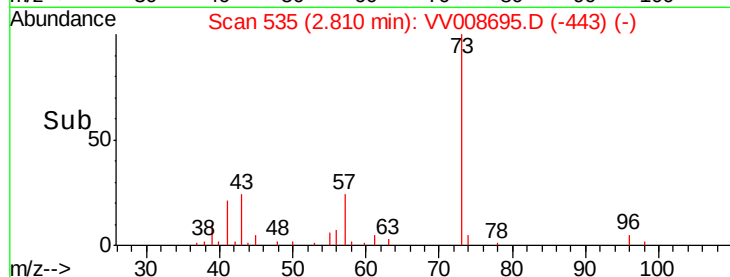
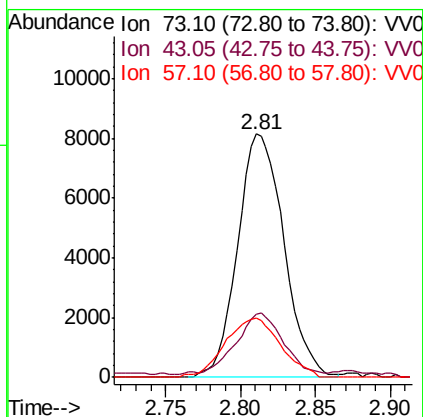
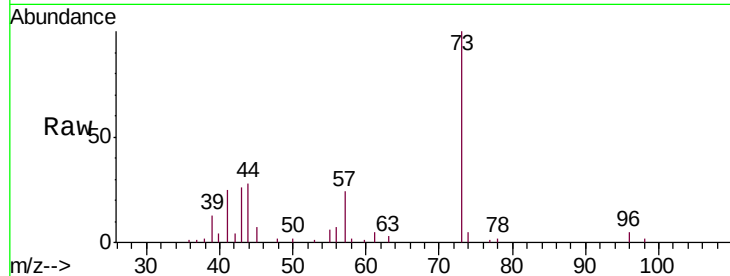




#17
Methyl tert-butyl Ether
Concen: 33.587 ug/L
RT: 2.81 min Scan# 535
Delta R.T. -0.00 min
Lab File: VV008695.D
Acq: 21 Nov 2018 12:51

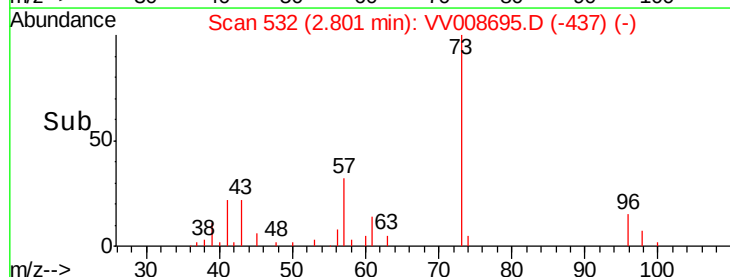
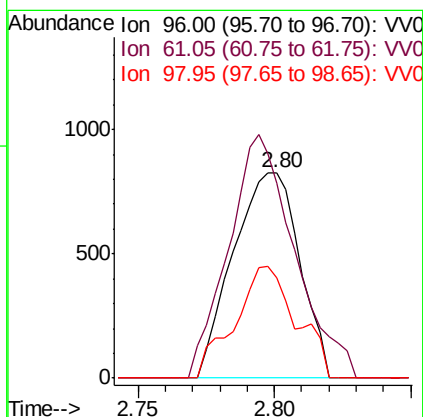
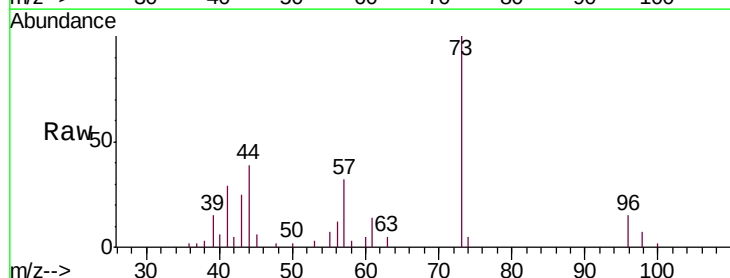
Instrument :
MSVOA_V
ClientSampled :
H0FK5

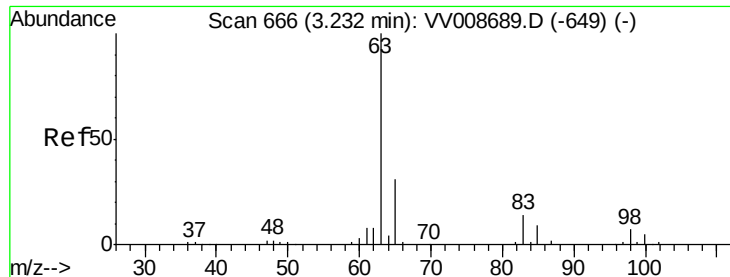
Tgt Ion: 73 Resp: 17546
Ion Ratio Lower Upper
73 100
43 25.0 18.1 27.1
57 29.0 17.9 26.9#



#18
trans-1,2-Dichloroethene
Concen: 6.547 ug/L
RT: 2.80 min Scan# 532
Delta R.T. 0.01 min
Lab File: VV008695.D
Acq: 21 Nov 2018 12:51

Tgt Ion: 96 Resp: 1395
Ion Ratio Lower Upper
96 100
61 94.7 97.1 180.3#
98 48.9 41.9 77.7

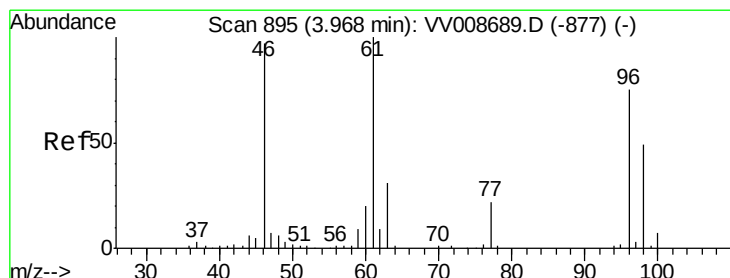
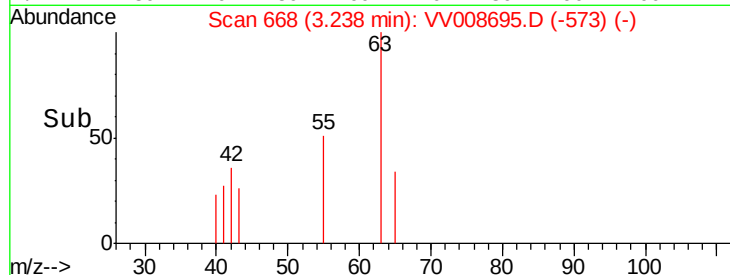
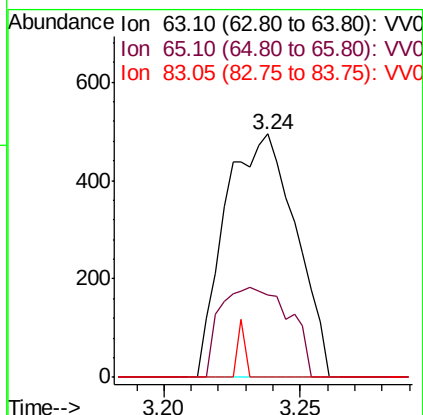
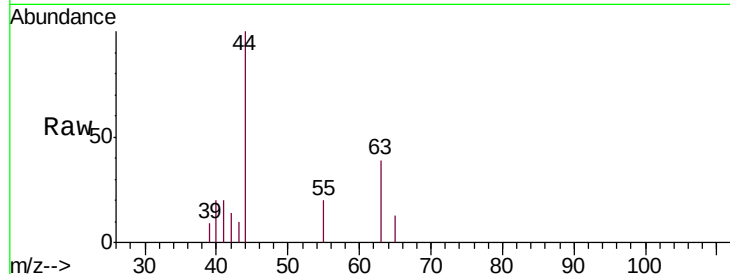




#19
 1,1-Dichloroethane
 Concen: 1.649 ug/L
 RT: 3.24 min Scan# 668
 Delta R.T. 0.01 min
 Lab File: VV008695.D
 Acq: 21 Nov 2018 12:51

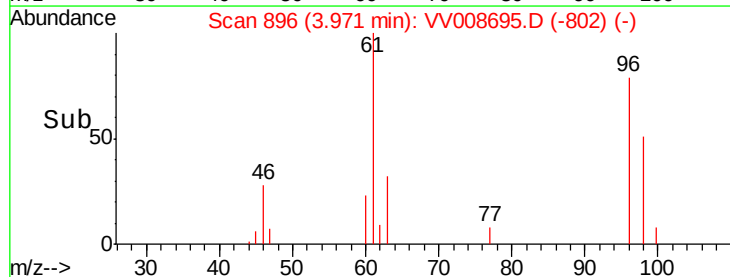
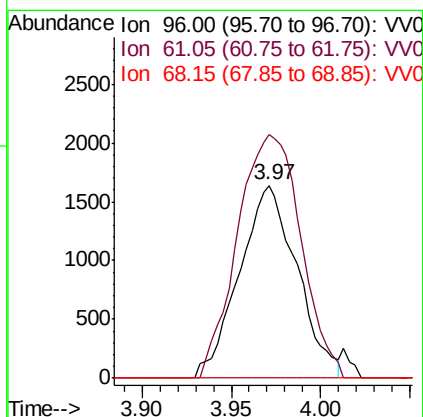
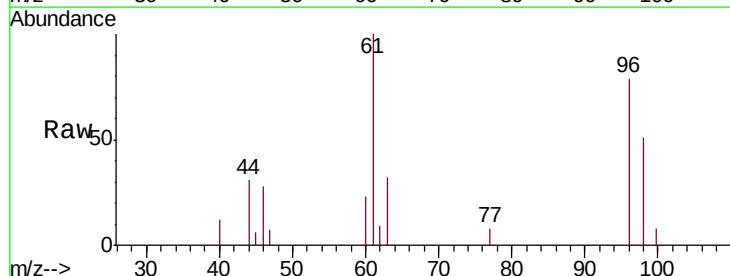
Instrument :
 MSVOA_V
 ClientSampleId :
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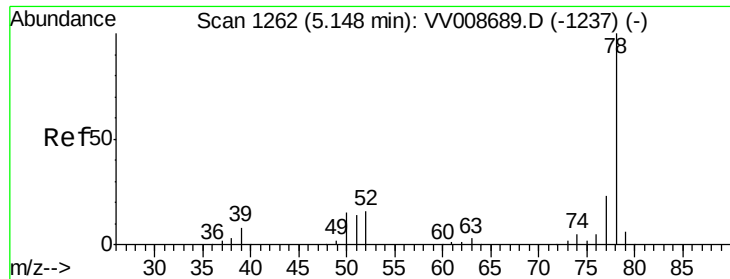
Tgt Ion: 63 Resp: 889
 Ion Ratio Lower Upper
 63 100
 65 33.7 23.2 43.0
 83 0.0 9.5 17.7#



#22
 cis-1,2-Dichloroethene
 Concen: 11.514 ug/L
 RT: 3.97 min Scan# 896
 Delta R.T. 0.00 min
 Lab File: VV008695.D
 Acq: 21 Nov 2018 12:51

Tgt Ion: 96 Resp: 3703
 Ion Ratio Lower Upper
 96 100
 61 126.1 93.2 173.2
 68 0.0 0.0 0.0





#33

Benzene

Concen: 1.081 ug/L

RT: 5.15 min Scan# 1264

Delta R.T. 0.01 min

Lab File: VV008695.D

Acq: 21 Nov 2018 12:51

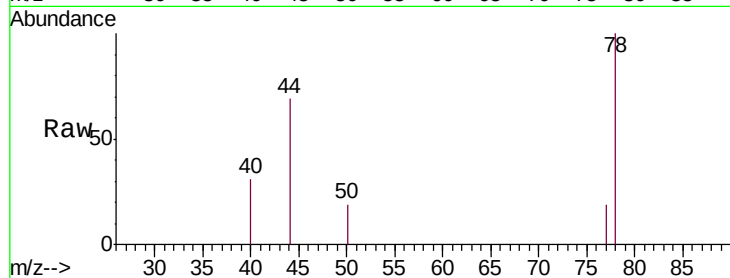
Instrument :

MSVOA_V

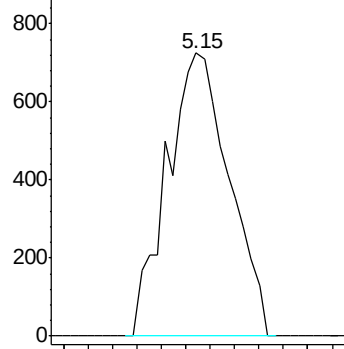
ClientSampleId :

H0FK5

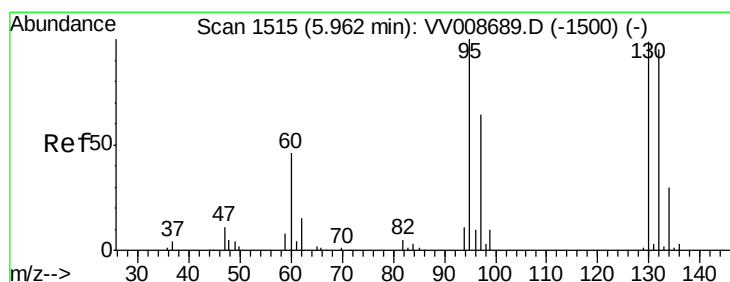
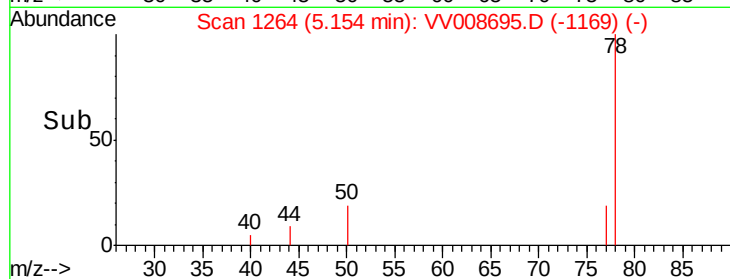
Tgt Ion: 78 Resp: 1282



Abundance Ion 78.10 (77.80 to 78.80): VV0



Time--> 5.10 5.15 5.20



#34

Trichloroethene

Concen: 0.581 ug/L

RT: 5.97 min Scan# 1517

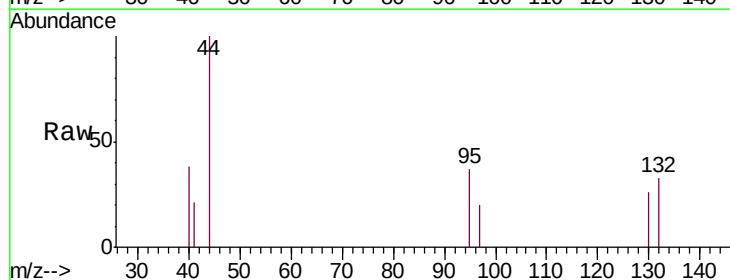
Delta R.T. 0.01 min

Lab File: VV008695.D

Acq: 21 Nov 2018 12:51

Tgt Ion: 95 Resp: 182

Ion	Ratio	Lower	Upper
95	100		
97	55.6	45.1	83.7
132	88.4	66.3	123.1
130	70.4	68.0	126.4

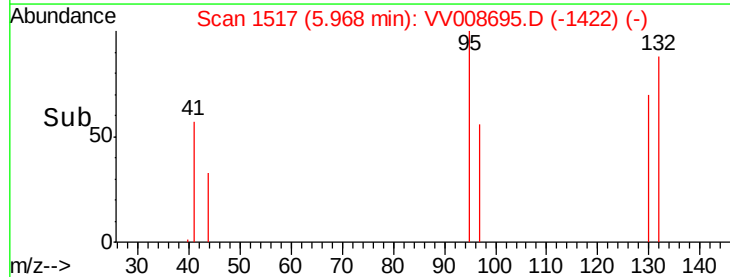


Abundance Ion 95.00 (94.70 to 95.70): VV0

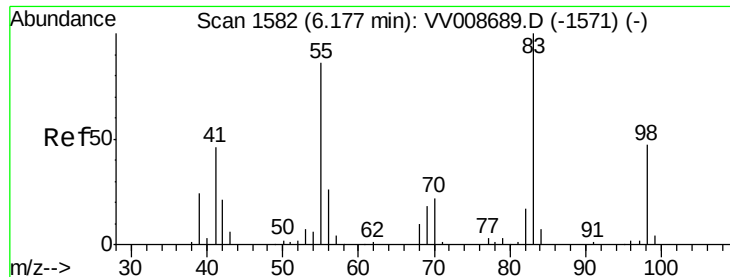
Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



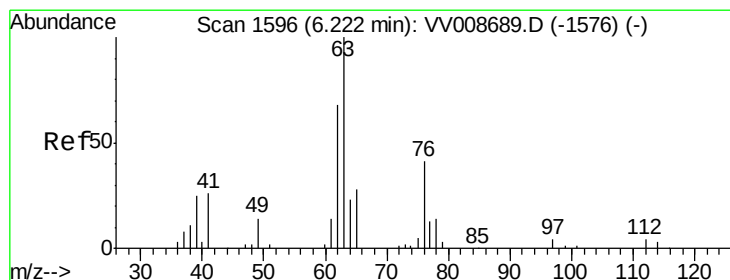
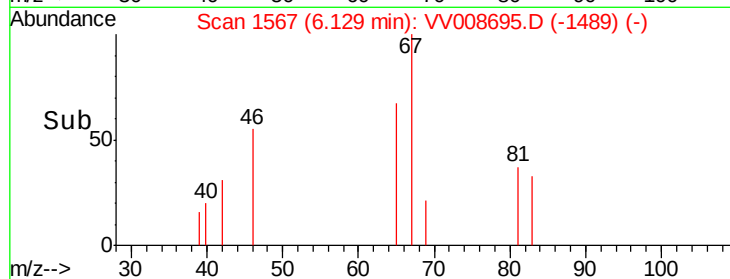
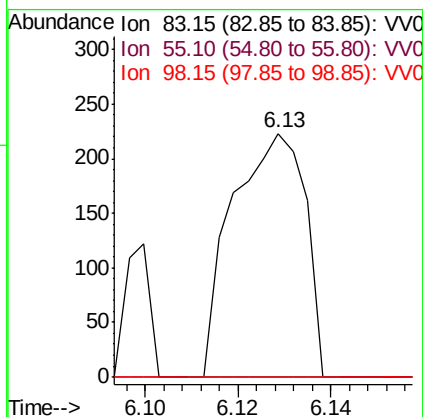
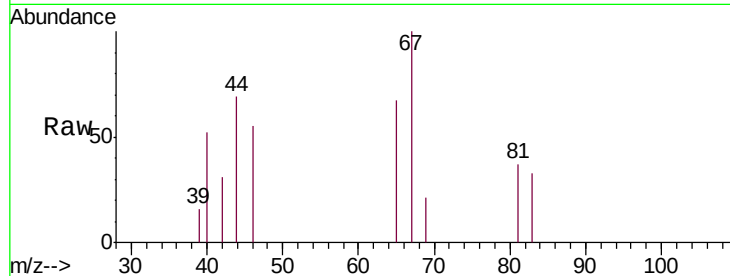
Time--> 5.96 5.98



#35
Methylcyclohexane
Concen: 0.462 ug/L
RT: 6.13 min Scan# 1567
Delta R.T. -0.05 min
Lab File: VV008695.D
Acq: 21 Nov 2018 12:51

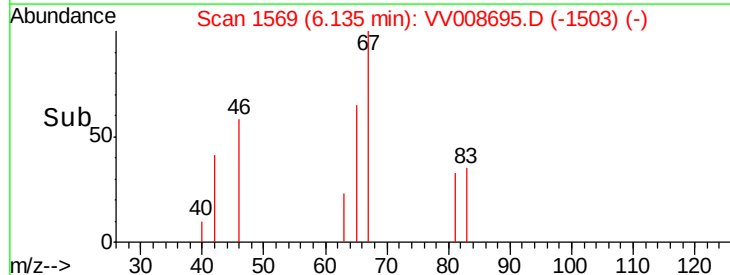
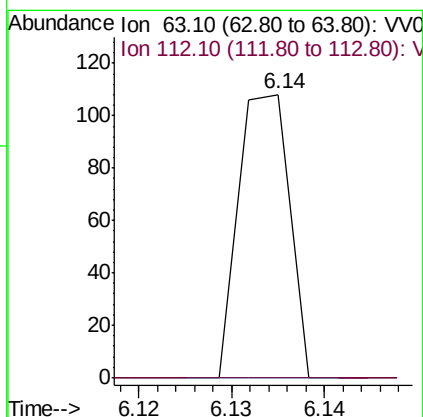
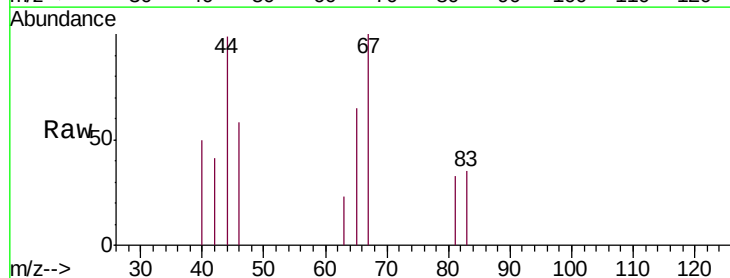
Instrument :
MSVOA_V
ClientSampled :
H0FK5

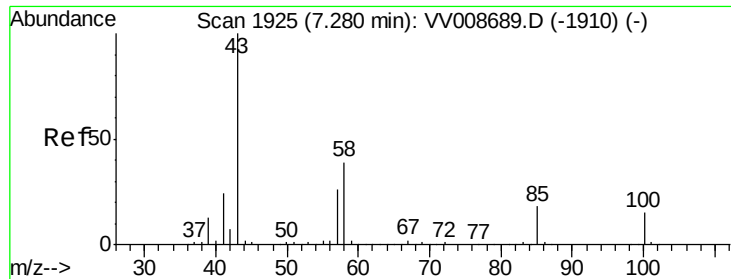
Tgt Ion: 83 Resp: 245
Ion Ratio Lower Upper
83 100
55 0.0 65.6 98.4#
98 0.0 36.4 54.6#



#37
1,2-Dichloropropane
Concen: 0.132 ug/L
RT: 6.14 min Scan# 1569
Delta R.T. -0.09 min
Lab File: VV008695.D
Acq: 21 Nov 2018 12:51

Tgt Ion: 63 Resp: 41
Ion Ratio Lower Upper
63 100
112 0.0 2.8 4.2#

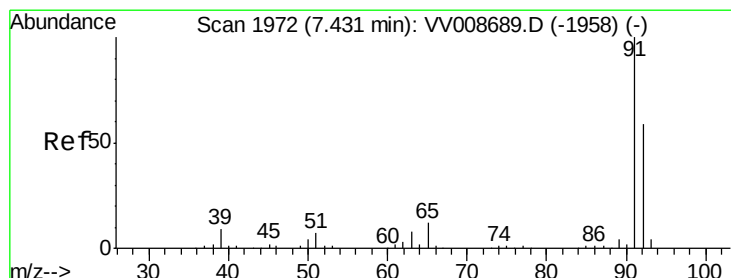
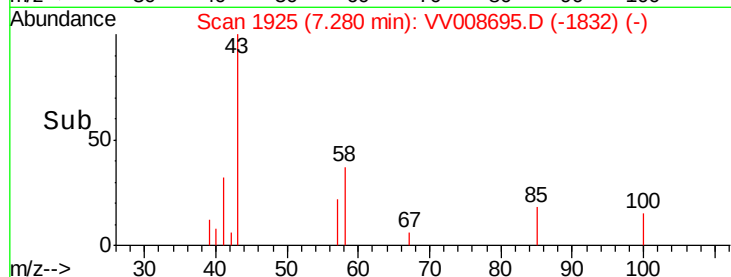
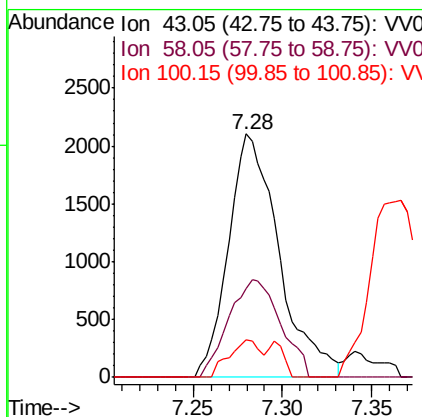
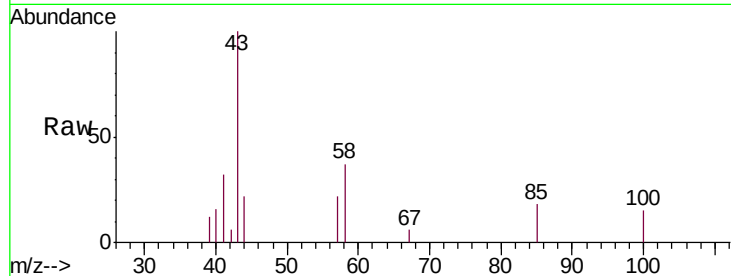




#40
 4-Methyl-2-pentanone
 Concen: 22.826 ug/L
 RT: 7.28 min Scan# 1925
 Delta R.T. -0.00 min
 Lab File: VV008695.D
 Acq: 21 Nov 2018 12:51

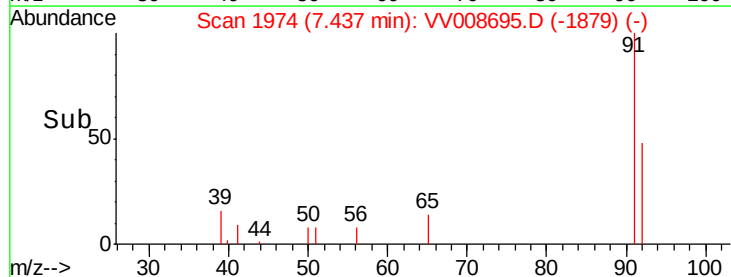
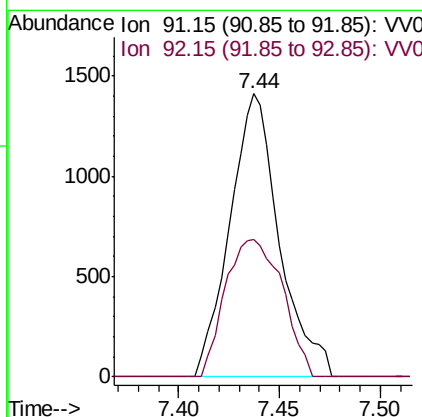
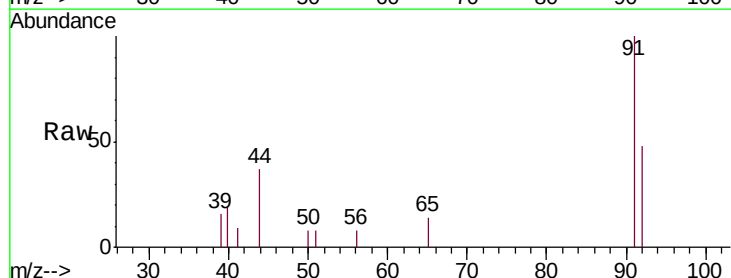
Instrument :
 MSVOA_V
 ClientSampled :
 H0FK5

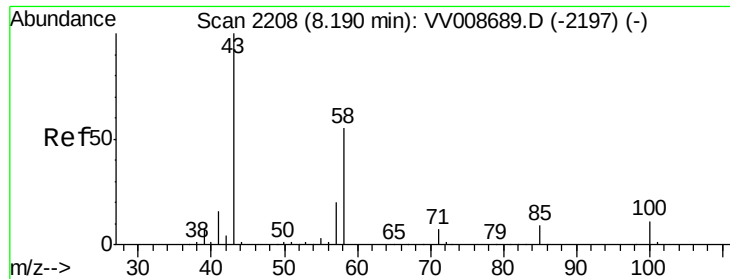
Tgt Ion: 43 Resp: 4164
 Ion Ratio Lower Upper
 43 100
 58 41.0 31.0 46.4
 100 9.5 11.1 16.7#



#42
 Toluene
 Concen: 1.959 ug/L
 RT: 7.44 min Scan# 1974
 Delta R.T. 0.01 min
 Lab File: VV008695.D
 Acq: 21 Nov 2018 12:51

Tgt Ion: 91 Resp: 2420
 Ion Ratio Lower Upper
 91 100
 92 48.4 39.1 72.5

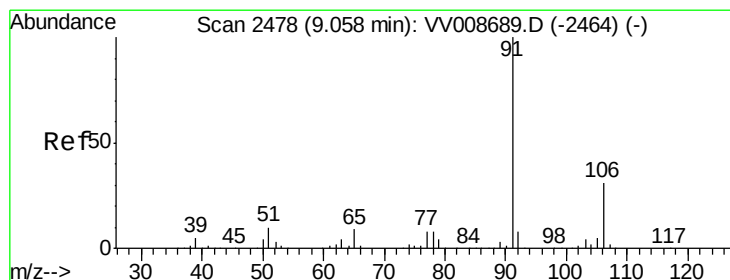
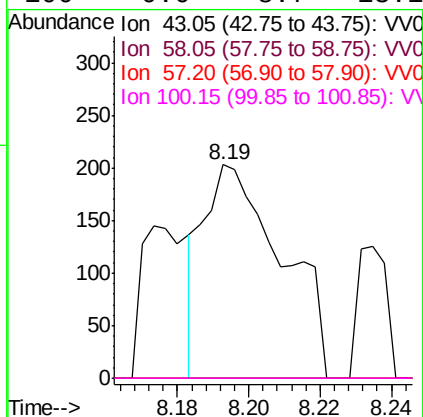
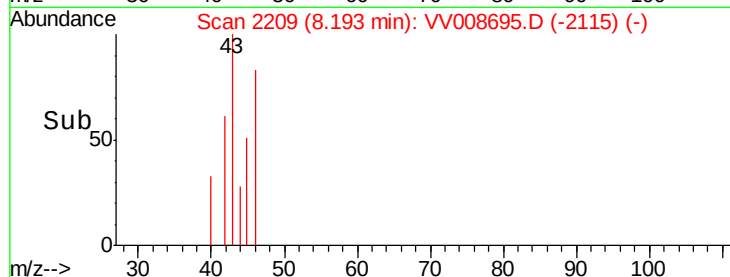
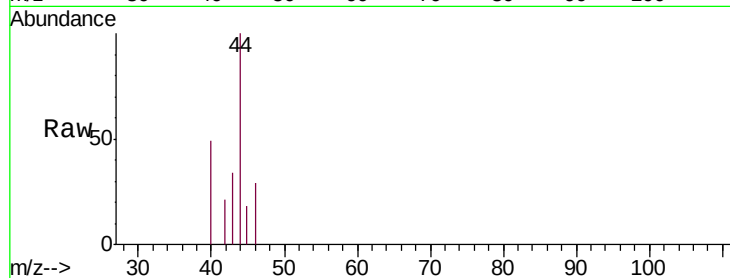




#48
2-Hexanone
Concen: 2.501 ug/L
RT: 8.19 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VV008695.D
Acq: 21 Nov 2018 12:51

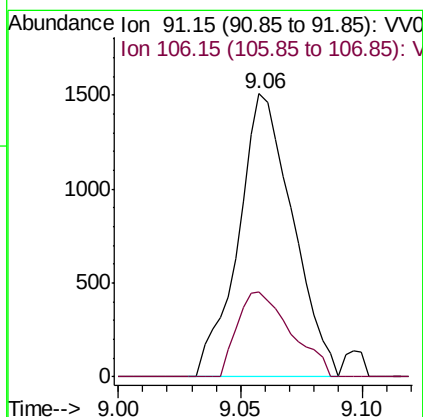
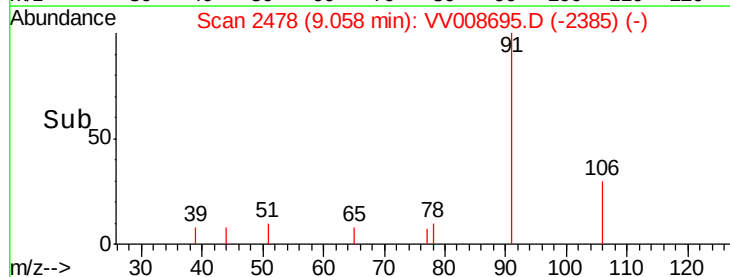
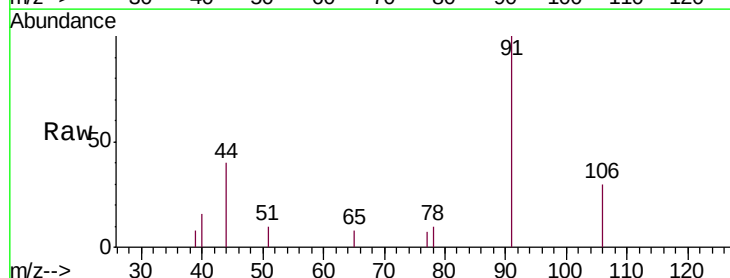
Instrument :
MSVOA_V
ClientSampleId :
H0FK5

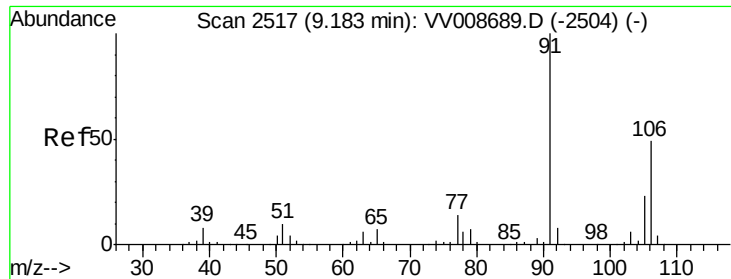
Tgt Ion: 43 Resp: 308
Ion Ratio Lower Upper
43 100
58 0.0 41.8 62.8#
57 0.0 15.4 23.0#
100 0.0 8.7 13.1#



#52
Ethylbenzene
Concen: 1.716 ug/L
RT: 9.06 min Scan# 2478
Delta R.T. -0.00 min
Lab File: VV008695.D
Acq: 21 Nov 2018 12:51

Tgt Ion: 91 Resp: 2334
Ion Ratio Lower Upper
91 100
106 30.2 21.3 39.6





#53

m,p-xylene

Concen: 1.404 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV008695.D

Acq: 21 Nov 2018 12:51

Instrument :

MSVOA_V

ClientSampleId :

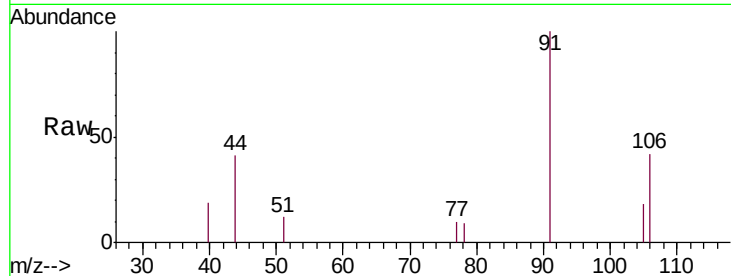
H0FK5

Tgt Ion:106 Resp: 706

Ion Ratio Lower Upper

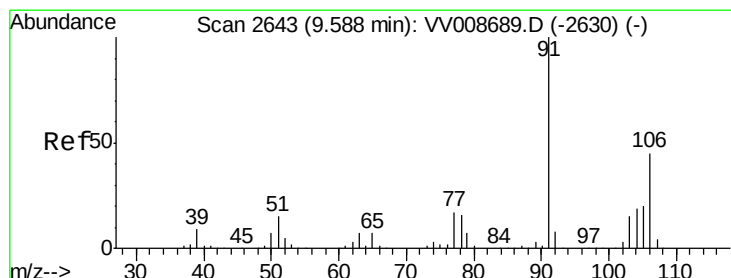
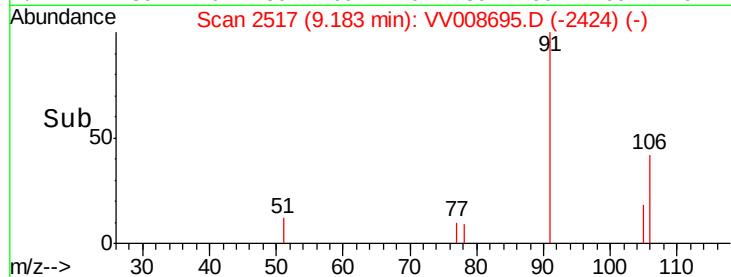
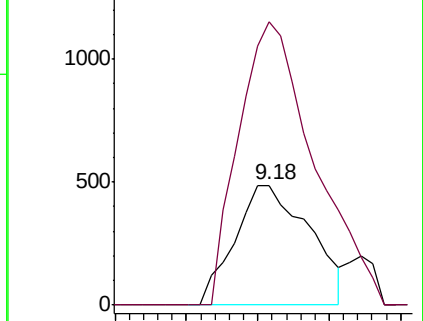
106 100

91 236.3 144.0 267.4



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#54

o-xylene

Concen: 1.909 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV008695.D

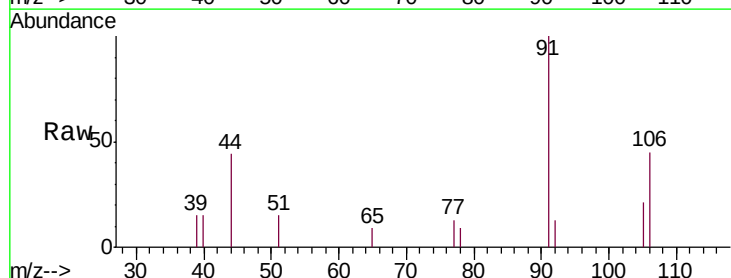
Acq: 21 Nov 2018 12:51

Tgt Ion:106 Resp: 934

Ion Ratio Lower Upper

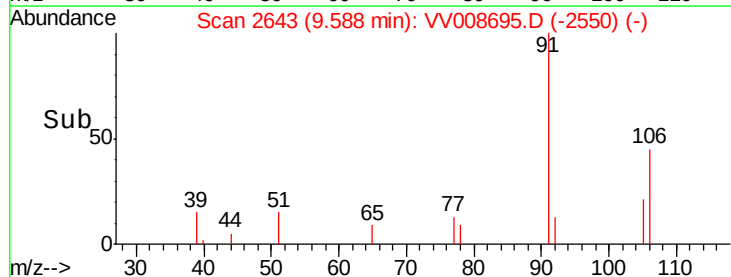
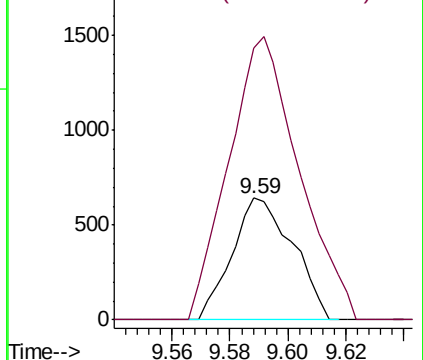
106 100

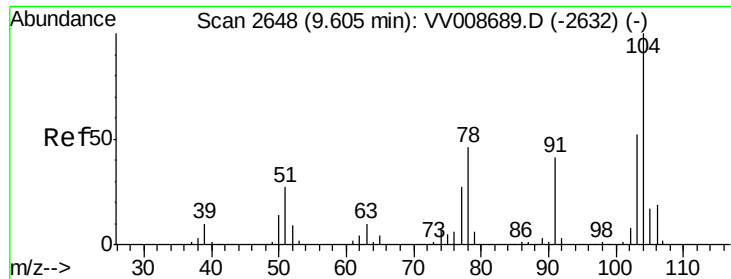
91 223.9 152.9 284.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#55

Styrene

Concen: 0.141 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. -0.01 min

Lab File: VV008695.D

Acq: 21 Nov 2018 12:51

Instrument :

MSVOA_V

ClientSampled :

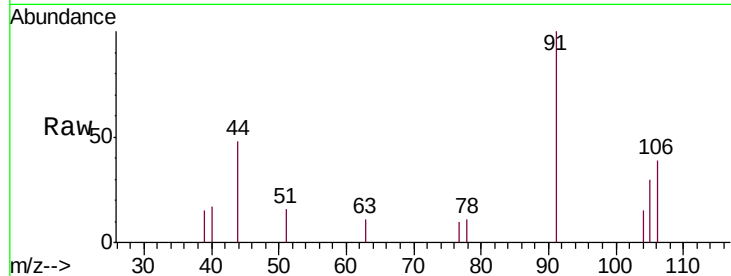
H0FK5

Tgt Ion:104 Resp: 111

Ion Ratio Lower Upper

104 100

78 68.8 32.9 61.1#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0

9.60

150

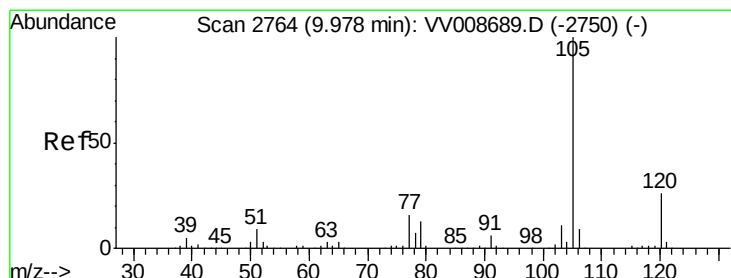
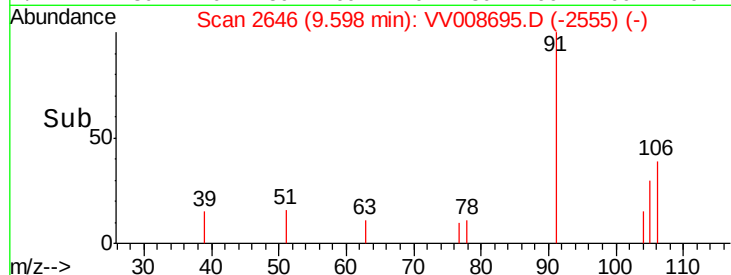
100

50

0

9.58 9.59 9.60 9.61

Time-->



#56

Isopropylbenzene

Concen: 0.263 ug/L

RT: 9.98 min Scan# 2766

Delta R.T. 0.01 min

Lab File: VV008695.D

Acq: 21 Nov 2018 12:51

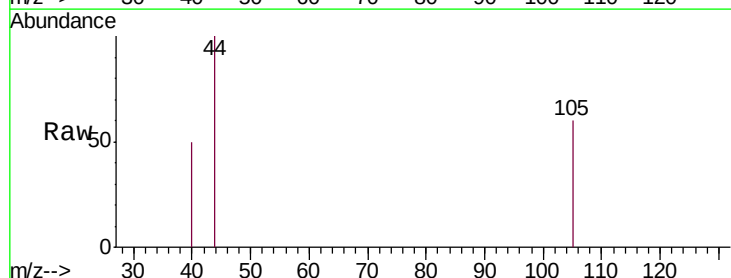
Tgt Ion:105 Resp: 345

Ion Ratio Lower Upper

105 100

120 0.0 21.0 31.6#

77 12.5 13.0 19.4#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VV0

400

300

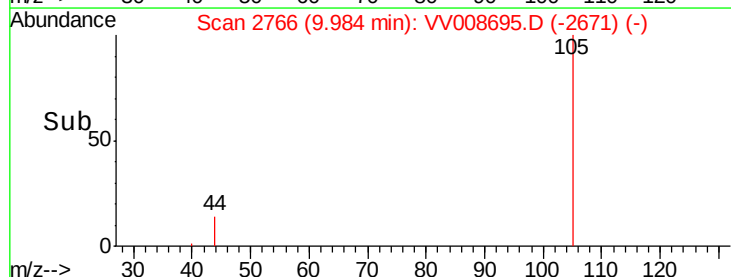
200

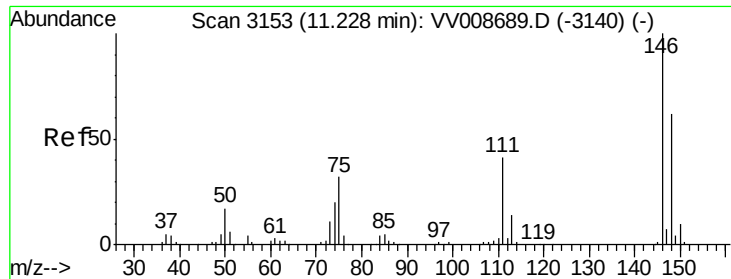
100

0

9.96 9.98 10.00

Time-->





#62

1,3-Dichlorobenzene

Concen: 0.086 ug/L

RT: 11.23 min Scan# 3155

Delta R.T. 0.01 min

Lab File: VV008695.D

Acq: 21 Nov 2018 12:51

Instrument :

MSVOA_V

ClientSampleId :

H0FK5

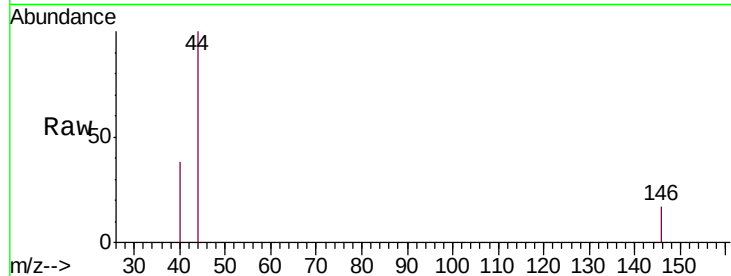
Tgt Ion:146 Resp: 42

Ion Ratio Lower Upper

146 100

111 0.0 28.1 52.1#

148 0.0 43.0 80.0#



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

