

Data File : VV012299.D
Acq On : 20 Aug 2019 01:27
Operator : SY/MD
Sample : K4373-18
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
C0AE4

Quant Time: Aug 20 02:41:11 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR081919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Aug 20 02:35:23 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	243567	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	228110	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	117119	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	63523	5.10	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	102.00%
7) Chloroethane-d5	1.58	69	49317	5.42	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	108.40%
11) 1,1-Dichloroethene-d2	2.13	63	51243	2.17	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	43.40%#
20) 2-Butanone-d5	3.94	46	202231	60.27	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	120.54%
24) Chloroform-d	4.40	84	140550	4.18	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.60%
26) 1,2-Dichloroethane-d4	5.08	65	74204	4.28	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.60%
32) Benzene-d6	5.10	84	287428	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.20%
36) 1,2-Dichloropropane-d6	6.12	67	88093	5.16	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.20%
41) Toluene-d8	7.36	98	254661	4.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.60%
43) trans-1,3-Dichloropropene-	7.66	79	31073	4.24	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.80%
46) 2-Hexanone-d5	8.13	63	165955	71.77	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	143.54%#
57) 1,1,2,2-Tetrachloroethane-	10.26	84	68977	5.32	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.40%
64) 1,2-Dichlorobenzene-d4	11.67	152	107993	4.58	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.60%

Target Compounds

					Qvalue
3) Chloromethane	1.25	50	4163	0.274 ug/L	87
8) Chloroethane	1.58	64	1037	0.130 ug/L #	51
13) Acetone	2.19	43	119073	67.840 ug/L #	61
14) Carbon disulfide	2.32	76	23759	0.766 ug/L	98
15) Methyl Acetate	2.32	43	18575	5.336 ug/L #	44
21) 2-Butanone	4.03	43	34021	10.216 ug/L	99
33) Benzene	5.14	78	130375	2.066 ug/L	100
35) Methylcyclohexane	6.12	83	21269	0.768 ug/L #	21
37) 1,2-Dichloropropane	6.12	63	10119	0.685 ug/L #	81
40) 4-Methyl-2-pentanone	7.27	43	14917	1.924 ug/L #	85
42) Toluene	7.43	91	32274	0.462 ug/L	99
44) trans-1,3-Dichloropropene	7.66	75	1453	0.078 ug/L #	75
45) 1,1,2-Trichloroethane	7.74	97	8646	0.763 ug/L #	20
48) 2-Hexanone	8.19	43	7768	1.392 ug/L #	88
50) 1,2-Dibromoethane	8.42	107	2005	0.187 ug/L #	4
52) Ethylbenzene	9.05	91	159550	2.042 ug/L	98
53) m,p-xylene	9.18	106	60707	1.990 ug/L	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV081919\
Quantitation Report (Not Reviewed)

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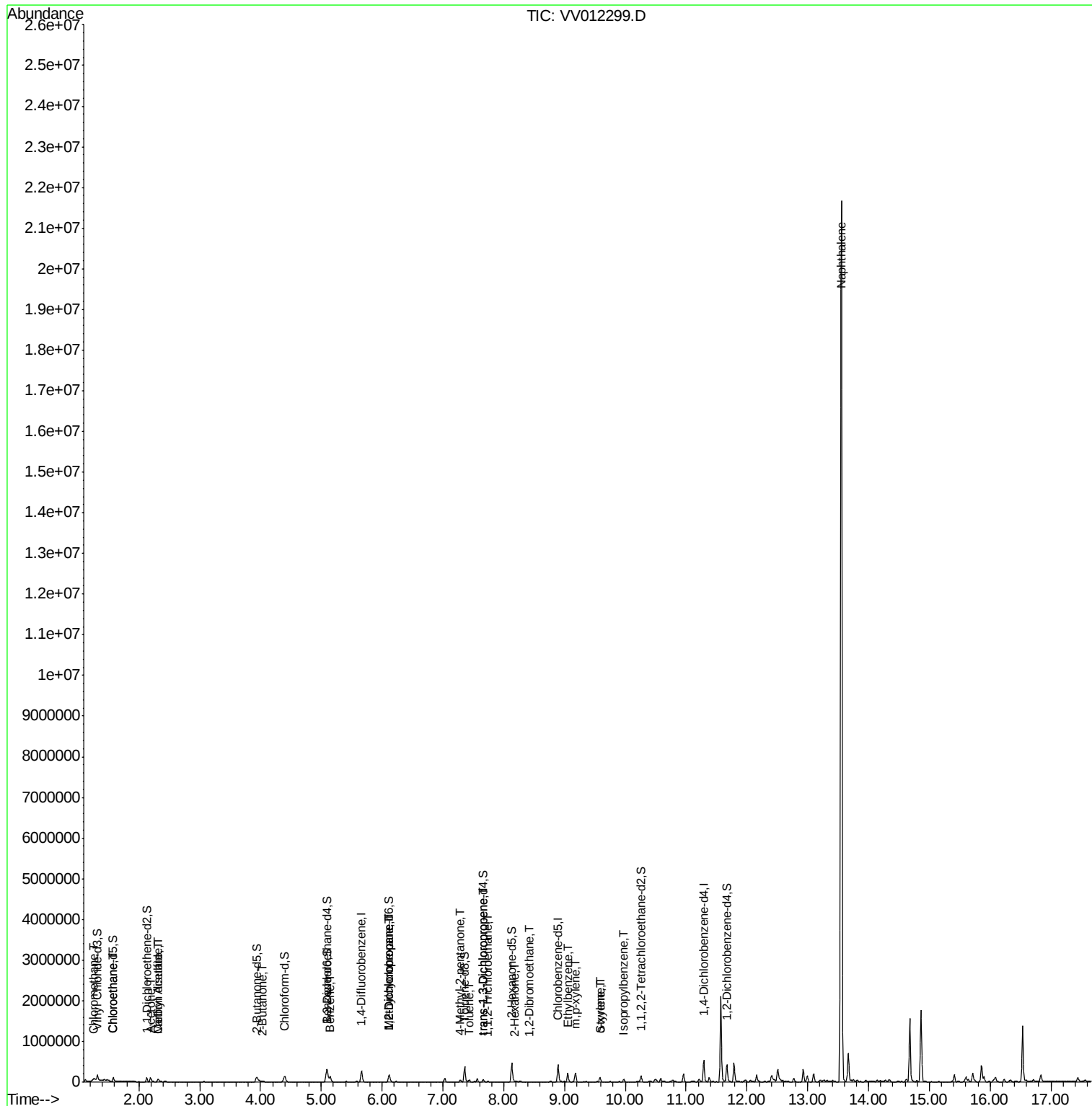
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-xylene	9.59	106	28623	0.976	ug/L	94
55) Styrene	9.59	104	2811	0.057	ug/L #	1
56) Isopropylbenzene	9.97	105	34922	0.431	ug/L	98
69) Naphthalene	13.55	128	15617952	477.567	ug/L #	93

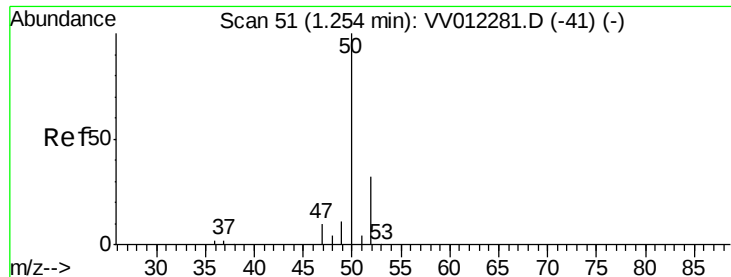
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.274 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012299.D

Acq: 20 Aug 2019 01:27

Instrument :

MSVOA_V

ClientSampleId :

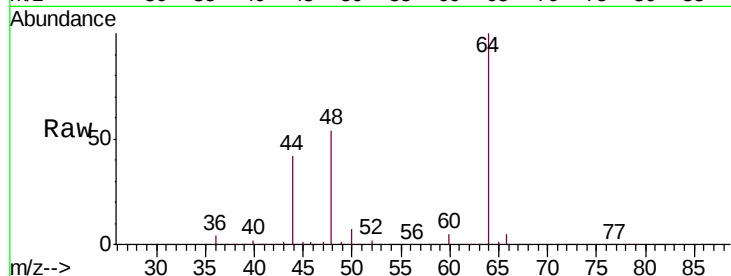
C0AE4

Tgt Ion: 50 Resp: 4163

Ion Ratio Lower Upper

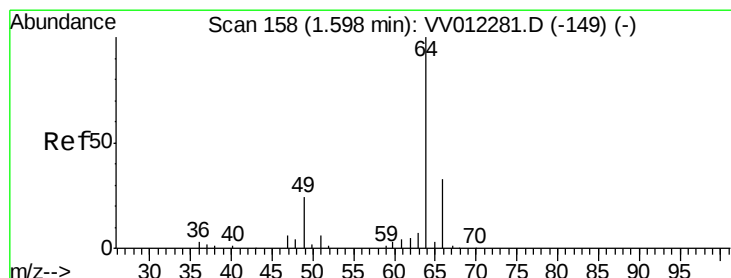
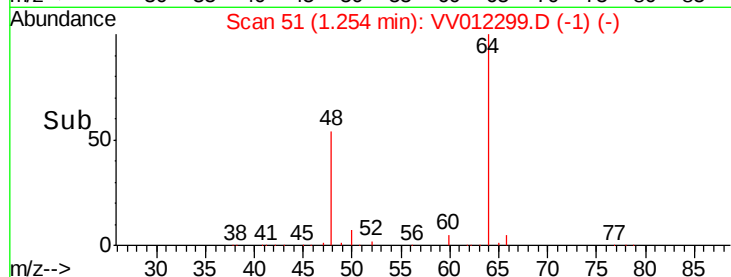
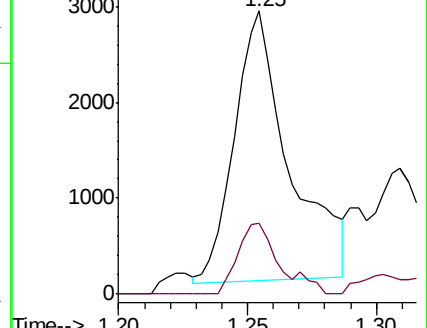
50 100

52 25.2 22.6 42.0



Abundance Ion 50.05 (49.75 to 50.75): VV012281.D (-41) (-)

Ion 52.05 (51.75 to 52.75): VV012299.D (-65) (-)



#8

Chloroethane

Concen: 0.130 ug/L

RT: 1.58 min Scan# 152

Delta R.T. -0.02 min

Lab File: VV012299.D

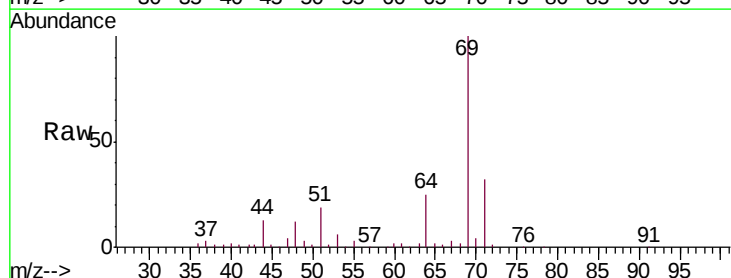
Acq: 20 Aug 2019 01:27

Tgt Ion: 64 Resp: 1037

Ion Ratio Lower Upper

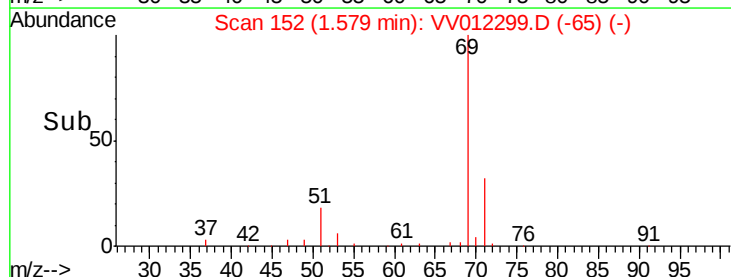
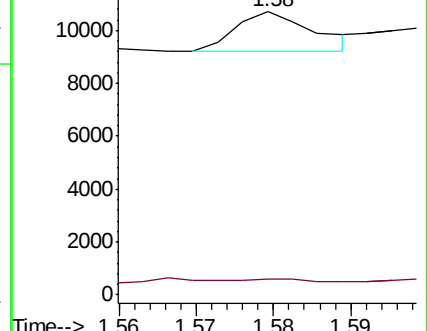
64 100

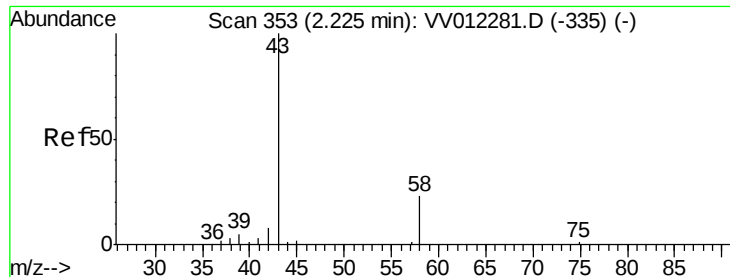
66 5.8 23.7 44.1#



Abundance Ion 64.10 (63.80 to 64.80): VV012281.D (-149) (-)

Ion 66.05 (65.75 to 66.75): VV012299.D (-65) (-)





#13

Acetone

Concen: 67.840 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.04 min

Lab File: VV012299.D

Acq: 20 Aug 2019 01:27

Instrument :

MSVOA_V

ClientSampleId :

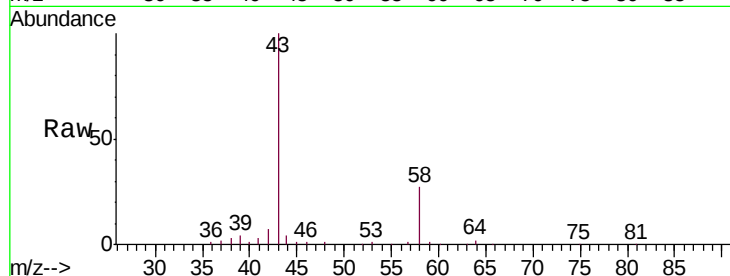
C0AE4

Tgt Ion: 43 Resp: 119073

Ion Ratio Lower Upper

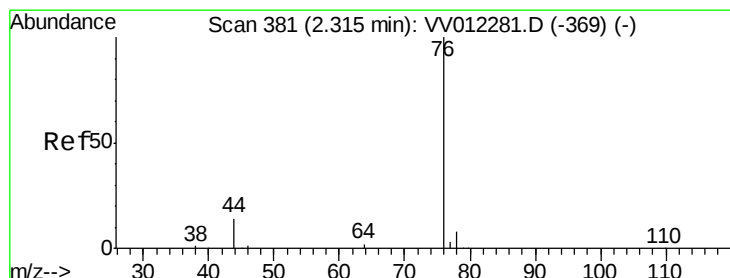
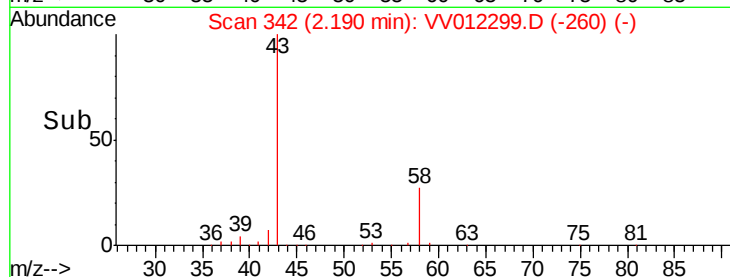
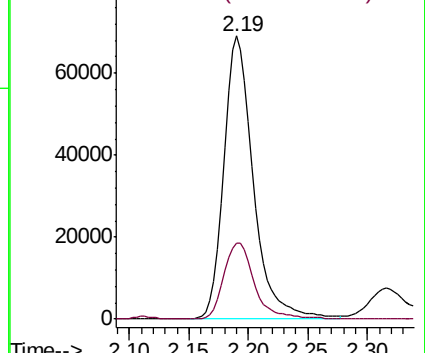
43 100

58 28.1 0.0 25.6#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0



#14

Carbon disulfide

Concen: 0.766 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV012299.D

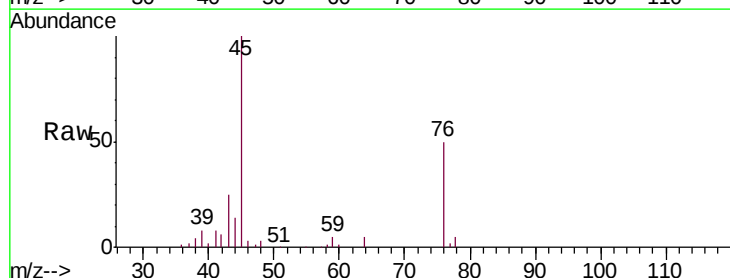
Acq: 20 Aug 2019 01:27

Tgt Ion: 76 Resp: 23759

Ion Ratio Lower Upper

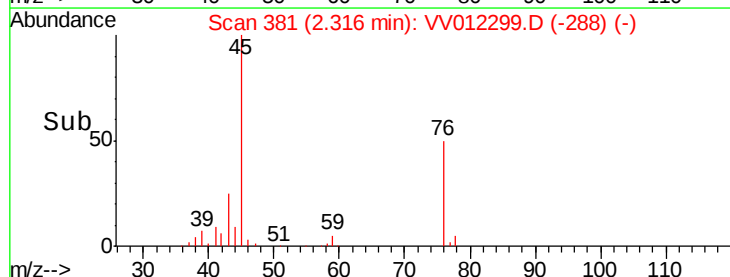
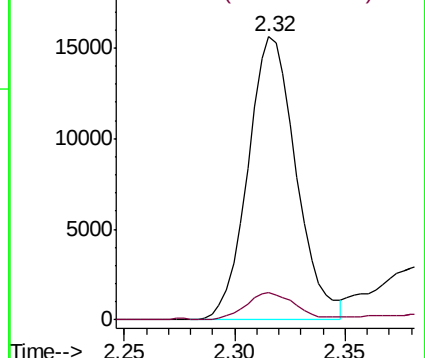
76 100

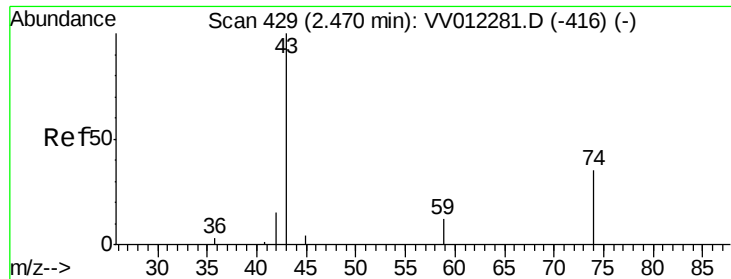
78 9.5 8.3 12.5



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

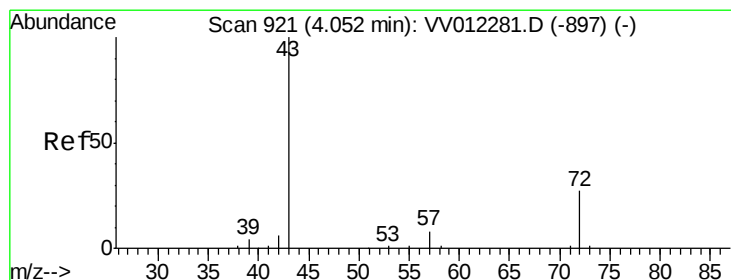
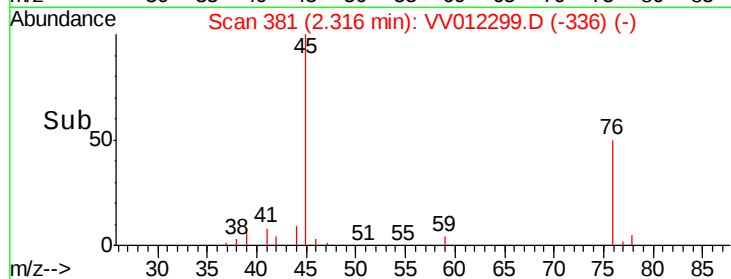
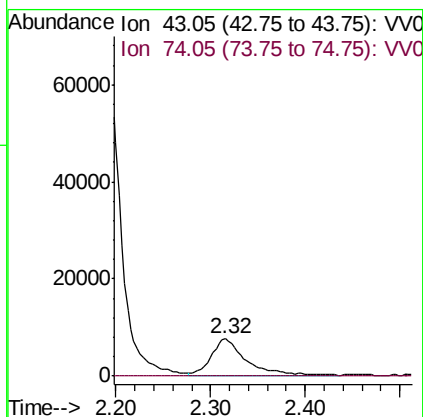
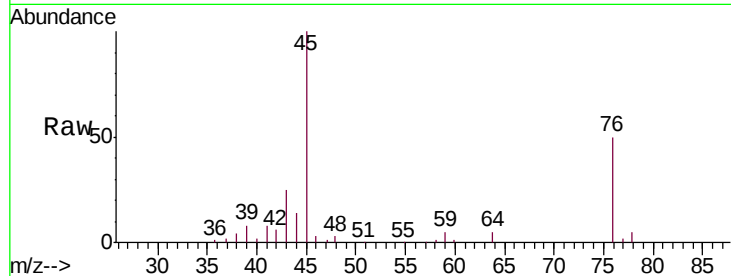




#15
Methyl Acetate
Concen: 5.336 ug/L
RT: 2.32 min Scan# 381
Delta R.T. -0.15 min
Lab File: VV012299.D
Acq: 20 Aug 2019 01:27

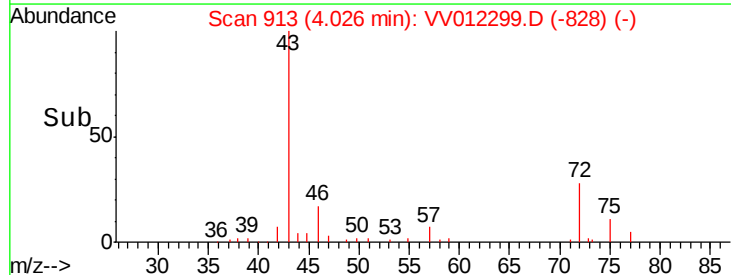
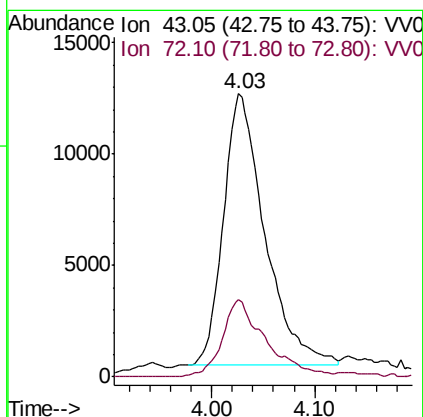
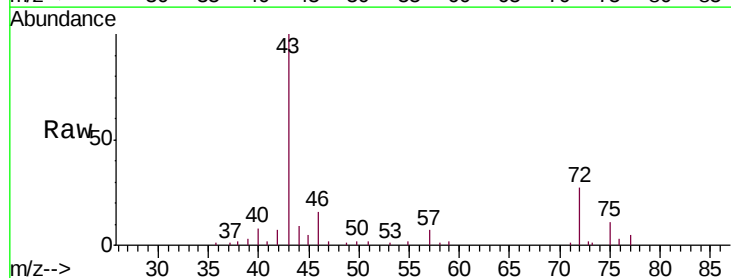
Instrument :
MSVOA_V
ClientSampleId :
C0AE4

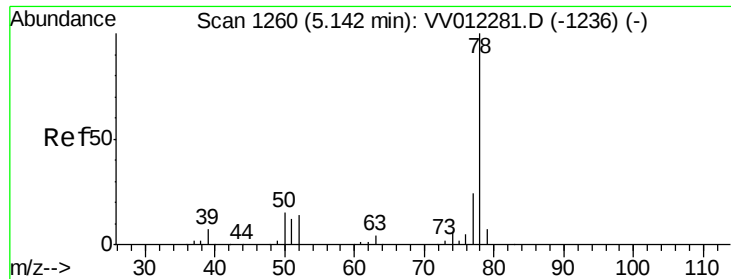
Tgt Ion: 43 Resp: 18575
Ion Ratio Lower Upper
43 100
74 0.0 24.9 37.3#



#21
2-Butanone
Concen: 10.216 ug/L
RT: 4.03 min Scan# 913
Delta R.T. -0.03 min
Lab File: VV012299.D
Acq: 20 Aug 2019 01:27

Tgt Ion: 43 Resp: 34021
Ion Ratio Lower Upper
43 100
72 30.0 14.8 44.4

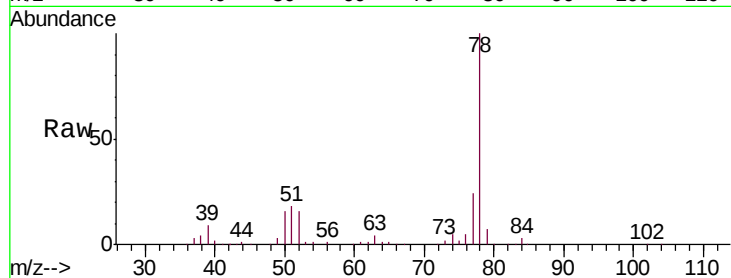




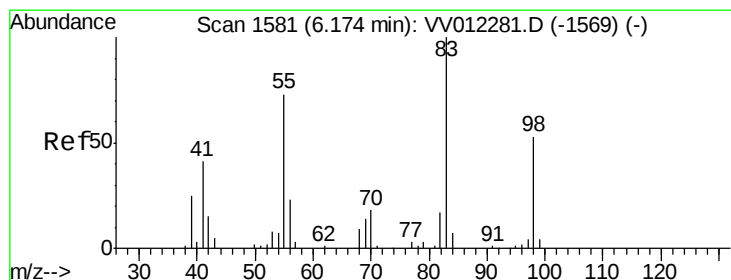
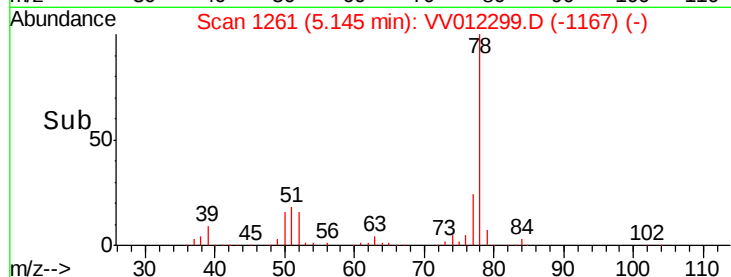
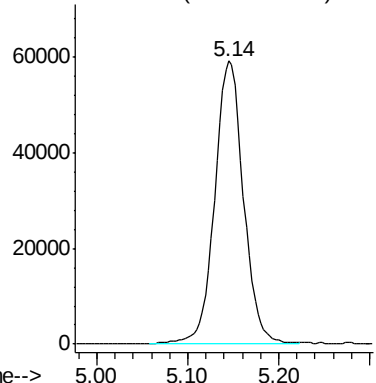
#33
Benzene
Concen: 2.066 ug/L
RT: 5.14 min Scan# 1261
Delta R.T. 0.00 min
Lab File: VV012299.D
Acq: 20 Aug 2019 01:27

Instrument :
MSVOA_V
ClientSampled :
C0AE4

Tgt Ion: 78 Resp: 130375

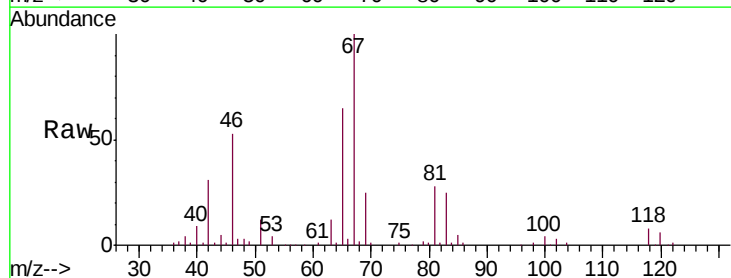


Abundance Ion 78.10 (77.80 to 78.80): VV0



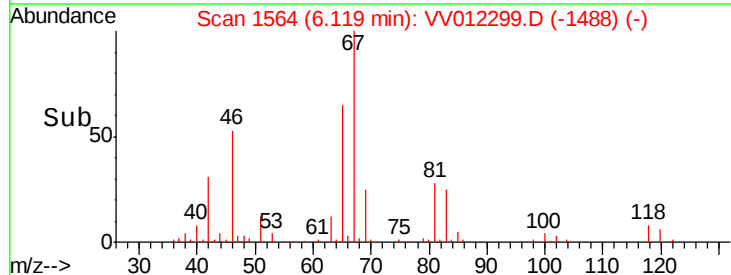
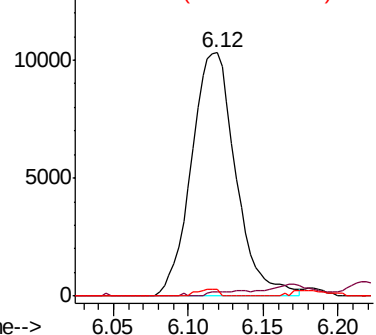
#35
Methylcyclohexane
Concen: 0.768 ug/L
RT: 6.12 min Scan# 1564
Delta R.T. -0.05 min
Lab File: VV012299.D
Acq: 20 Aug 2019 01:27

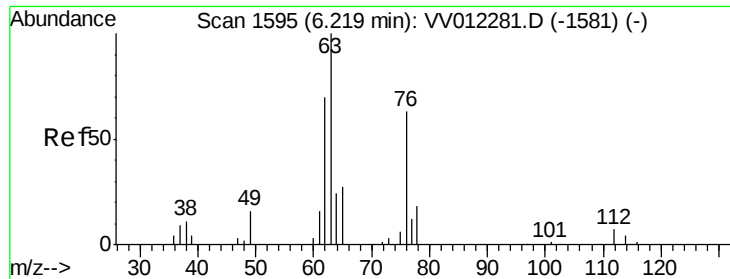
Tgt Ion: 83 Resp: 21269
Ion Ratio Lower Upper
83 100
55 0.8 57.3 85.9#
98 1.3 40.3 60.5#



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: 0.685 ug/L

RT: 6.12 min Scan# 1563

Delta R.T. -0.10 min

Lab File: VV012299.D

Acq: 20 Aug 2019 01:27

Instrument :

MSVOA_V

ClientSampleId :

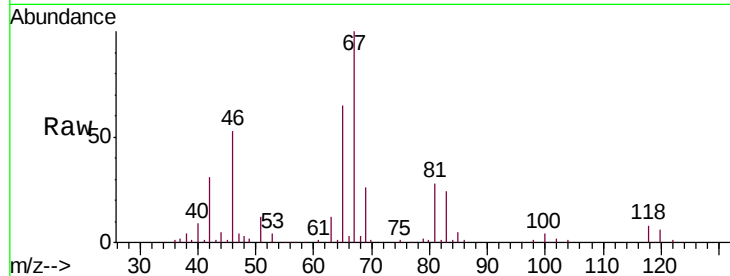
C0AE4

Tgt Ion: 63 Resp: 10119

Ion Ratio Lower Upper

63 100

112 0.0 5.1 7.7#



Abundance Ion 63.10 (62.80 to 63.80): VV012281.D (-1581) (-)

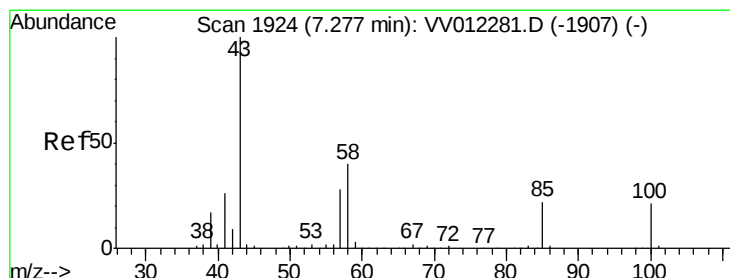
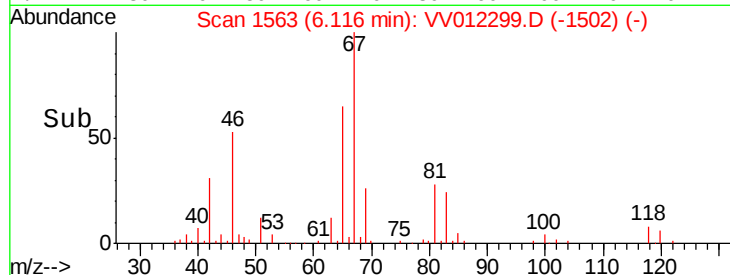
Ion 112.10 (111.80 to 112.80): VV012281.D (-1581) (-)

6.12

6.15

6.20

Time-->



#40

4-Methyl-2-pentanone

Concen: 1.924 ug/L

RT: 7.27 min Scan# 1923

Delta R.T. -0.00 min

Lab File: VV012299.D

Acq: 20 Aug 2019 01:27

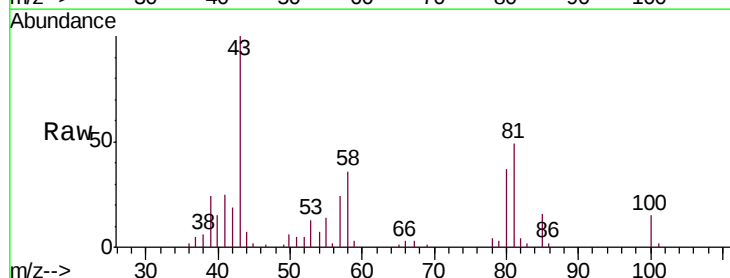
Tgt Ion: 43 Resp: 14917

Ion Ratio Lower Upper

43 100

58 39.2 32.1 48.1

100 0.0 15.2 22.8#



Abundance Ion 43.05 (42.75 to 43.75): VV012281.D (-1907) (-)

Ion 58.05 (57.75 to 58.75): VV012281.D (-1907) (-)

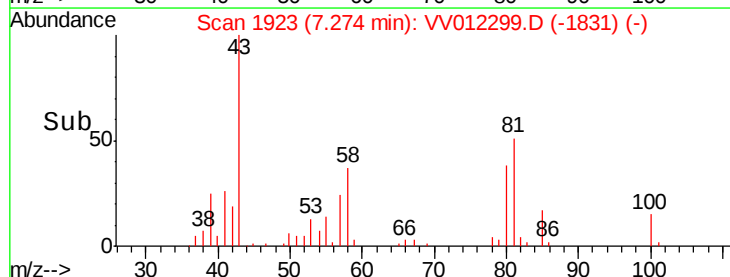
Ion 100.15 (99.85 to 100.85): VV012281.D (-1907) (-)

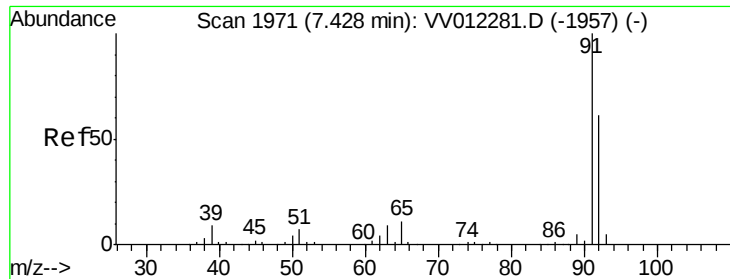
7.27

7.30

7.35

Time-->





#42

Toluene

Concen: 0.462 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV012299.D

Acq: 20 Aug 2019 01:27

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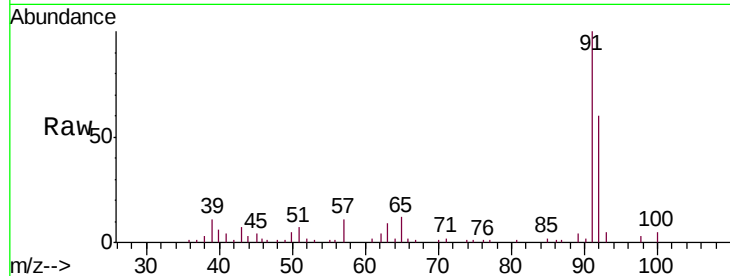
C0AE4

Tgt Ion: 91 Resp: 32274

Ion Ratio Lower Upper

91 100

92 60.1 41.6 77.3



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.43

20000

15000

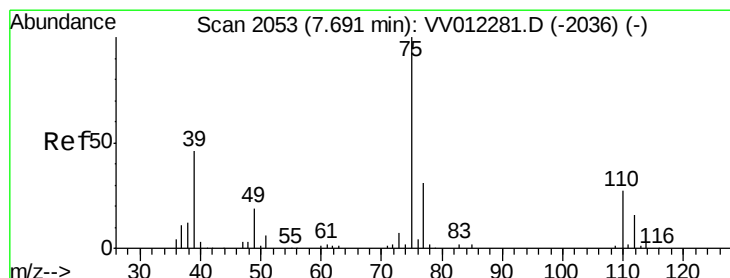
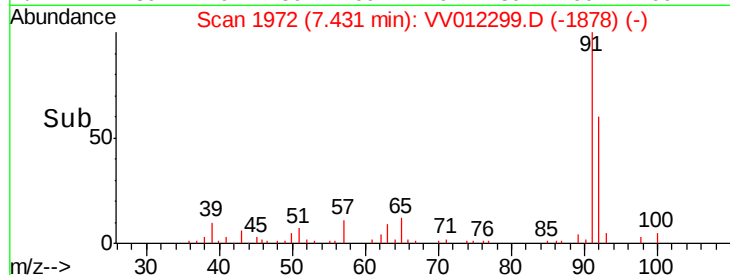
10000

5000

0

Time-->

7.35 7.40 7.45 7.50



#44

trans-1,3-Dichloropropene

Concen: 0.078 ug/L

RT: 7.66 min Scan# 2043

Delta R.T. -0.03 min

Lab File: VV012299.D

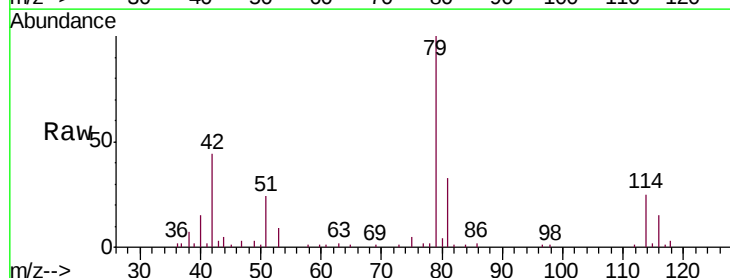
Acq: 20 Aug 2019 01:27

Tgt Ion: 75 Resp: 1453

Ion Ratio Lower Upper

75 100

77 45.6 22.1 41.1#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.66

1000

800

600

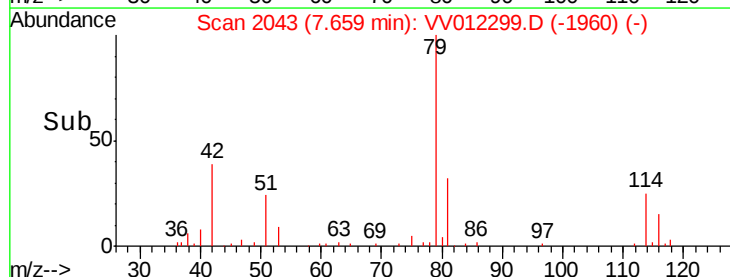
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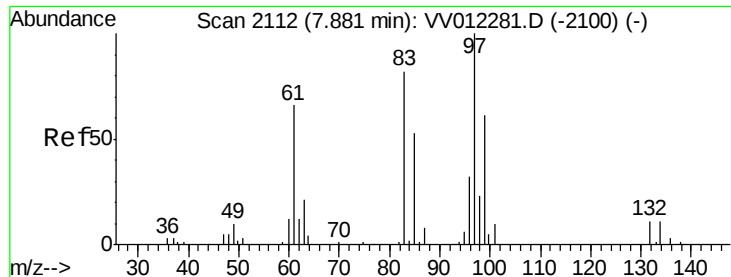
200

0

Time-->

7.65 7.70

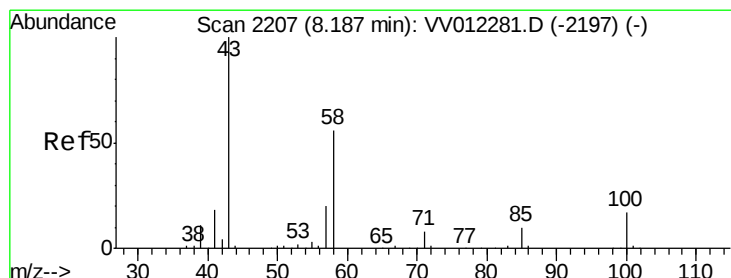
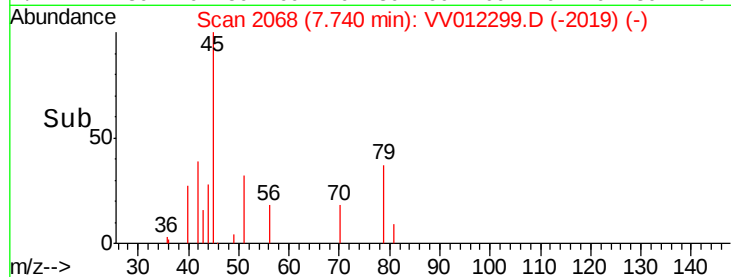
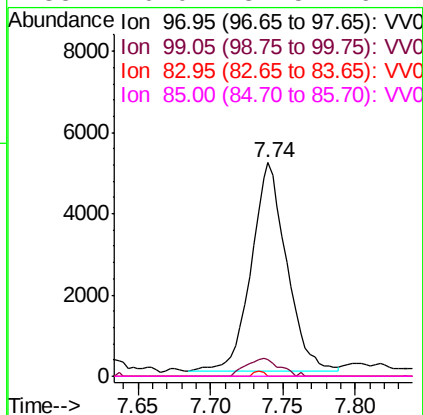
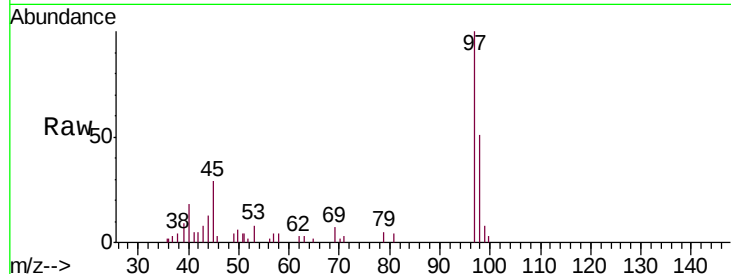




#45
 1,1,2-Trichloroethane
 Concen: 0.763 ug/L
 RT: 7.74 min Scan# 2068
 Delta R.T. -0.14 min
 Lab File: VV012299.D
 Acq: 20 Aug 2019 01:27

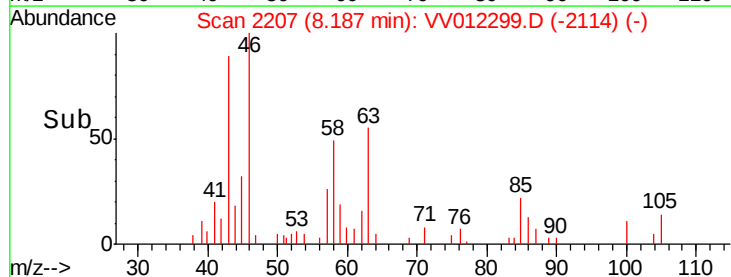
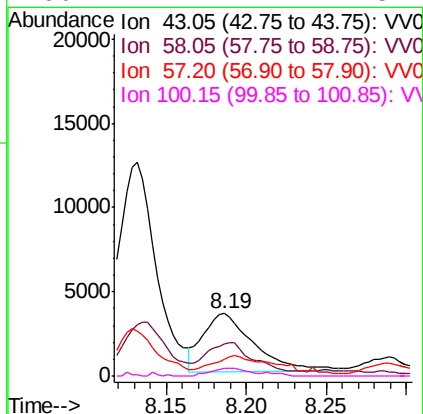
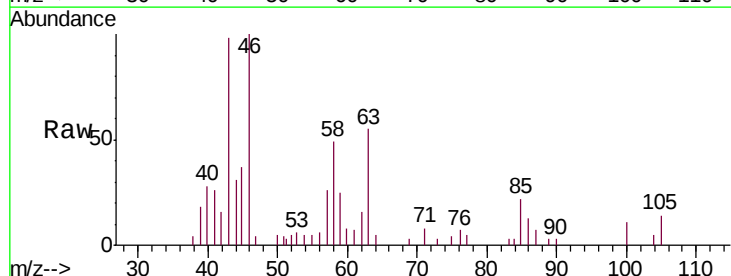
Instrument :
 MSVOA_V
 ClientSampleId :
 C0AE4

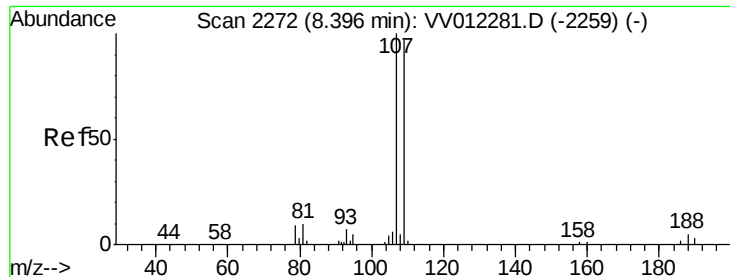
Tgt Ion: 97 Resp: 8646
 Ion Ratio Lower Upper
 97 100
 99 7.8 44.7 83.1#
 83 0.0 56.8 105.6#
 85 0.0 34.5 64.1#



#48
 2-Hexanone
 Concen: 1.392 ug/L
 RT: 8.19 min Scan# 2207
 Delta R.T. 0.00 min
 Lab File: VV012299.D
 Acq: 20 Aug 2019 01:27

Tgt Ion: 43 Resp: 7768
 Ion Ratio Lower Upper
 43 100
 58 55.6 45.4 68.2
 57 40.9 16.8 25.2#
 100 11.4 12.2 18.2#





#50

1,2-Dibromoethane

Concen: 0.187 ug/L

RT: 8.42 min Scan# 2280

Delta R.T. 0.03 min

Lab File: VV012299.D

Acq: 20 Aug 2019 01:27

Instrument :

MSVOA_V

ClientSampleId :

C0AE4

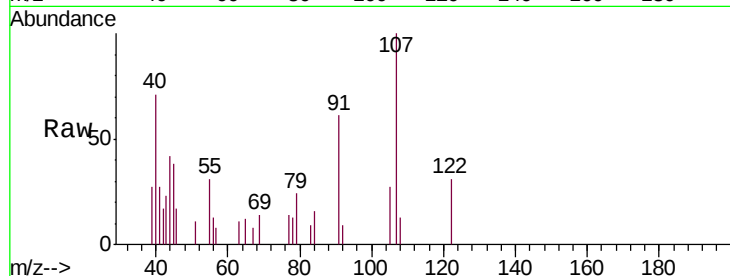
Tgt Ion: 107 Resp: 2005

Ion Ratio Lower Upper

107 100

109 0.0 70.0 130.0#

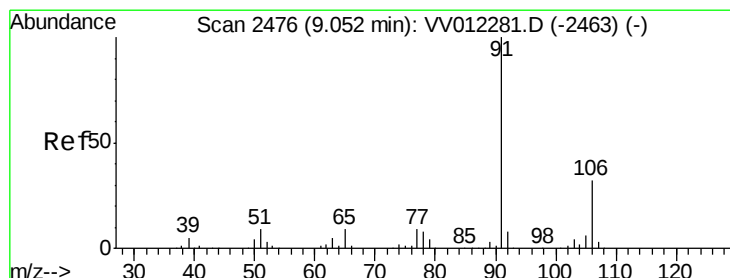
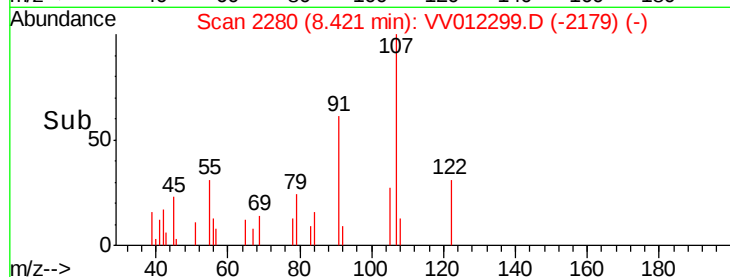
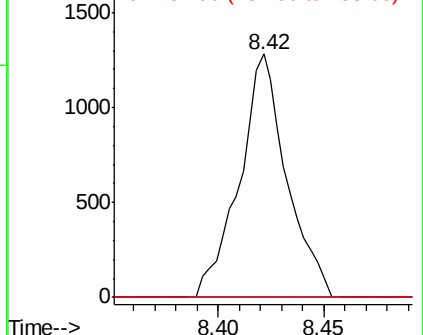
188 0.0 3.7 5.5#



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#52

Ethylbenzene

Concen: 2.042 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012299.D

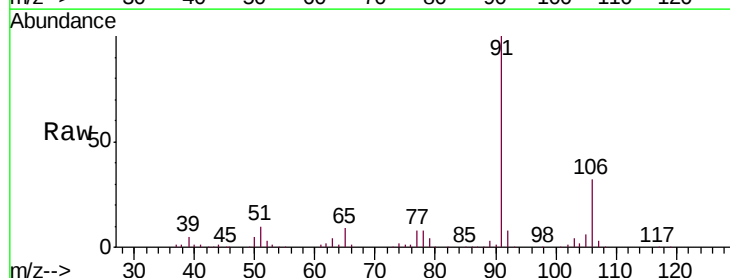
Acq: 20 Aug 2019 01:27

Tgt Ion: 91 Resp: 159550

Ion Ratio Lower Upper

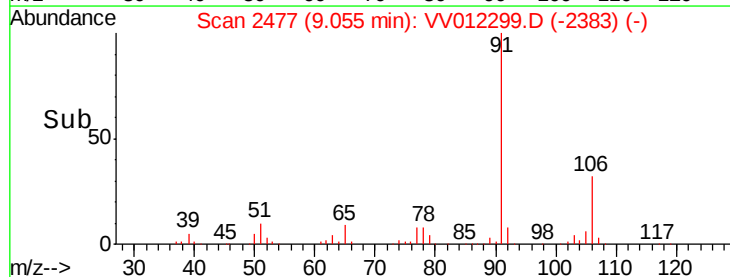
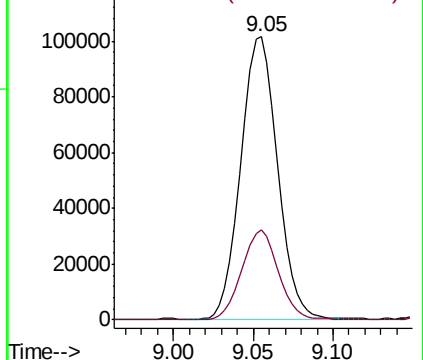
91 100

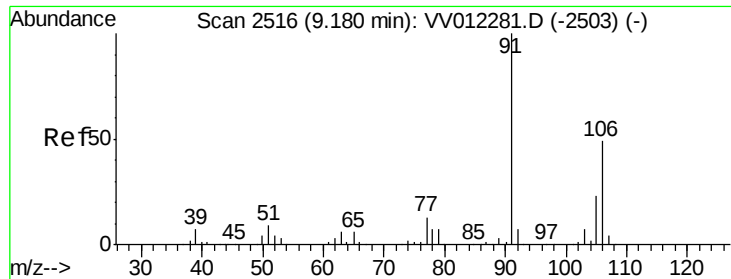
106 31.7 21.6 40.0



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 106.15 (105.85 to 106.85): V





#53

m,p-xylene

Concen: 1.990 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012299.D

Acq: 20 Aug 2019 01:27

Instrument :

MSVOA_V

ClientSampleId :

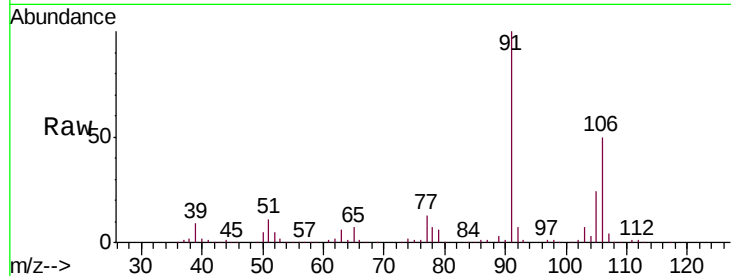
C0AE4

Tgt Ion:106 Resp: 60707

Ion Ratio Lower Upper

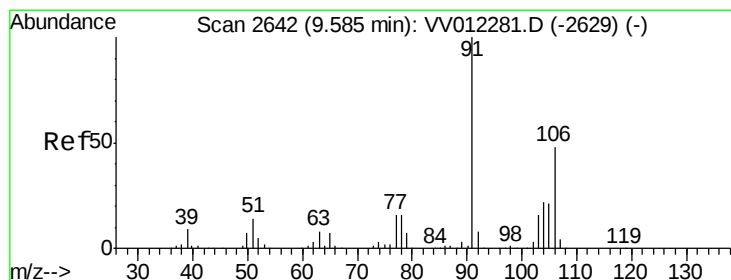
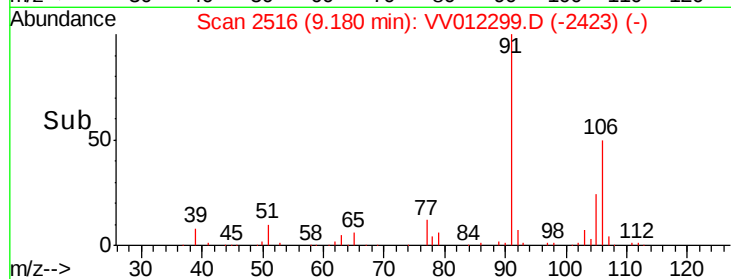
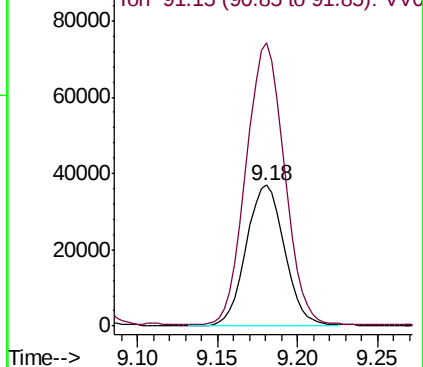
106 100

91 200.5 136.0 252.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#54

o-xylene

Concen: 0.976 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012299.D

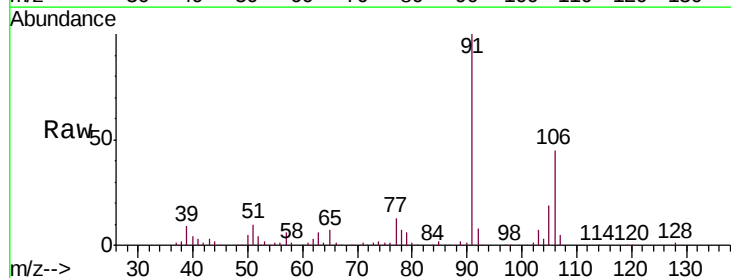
Acq: 20 Aug 2019 01:27

Tgt Ion:106 Resp: 28623

Ion Ratio Lower Upper

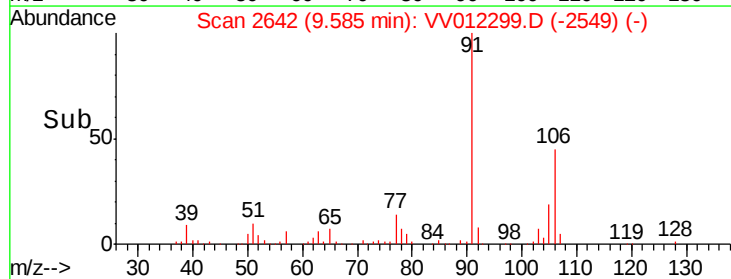
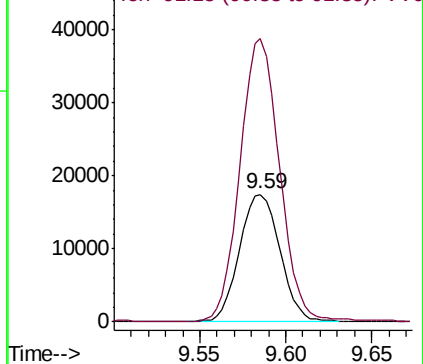
106 100

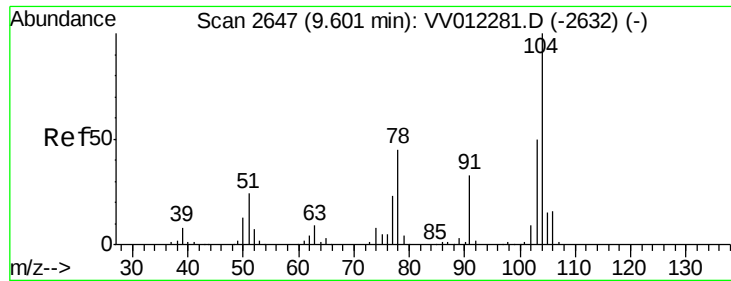
91 221.9 148.7 276.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#55

Styrene

Concen: 0.057 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.01 min

Lab File: VV012299.D

Acq: 20 Aug 2019 01:27

Instrument :

MSVOA_V

ClientSampleId :

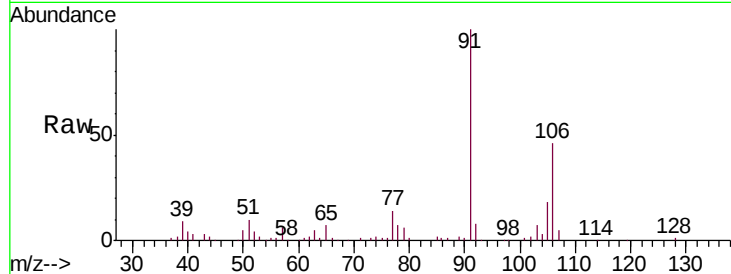
C0AE4

Tgt Ion:104 Resp: 2811

Ion Ratio Lower Upper

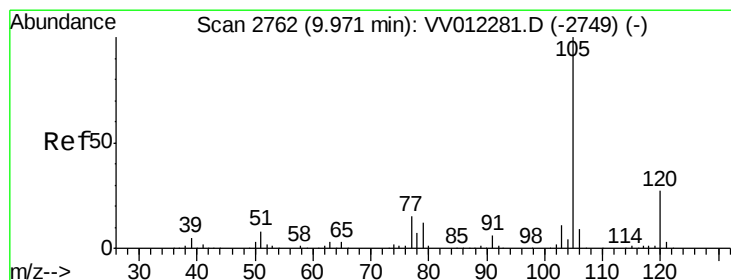
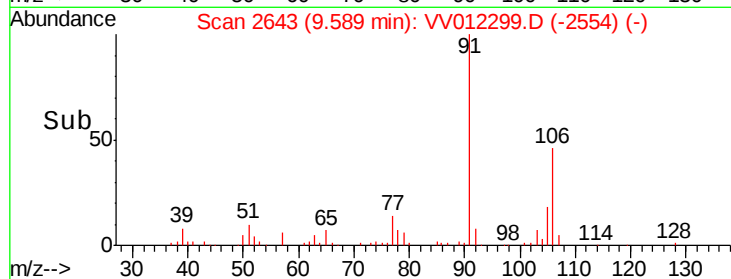
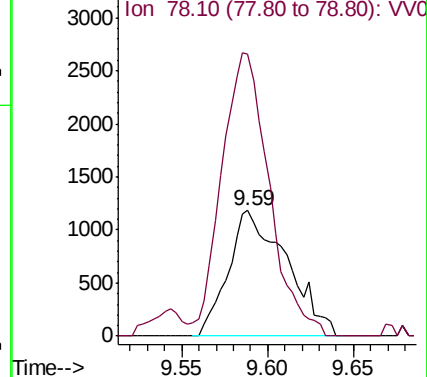
104 100

78 224.9 30.8 57.2#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0



#56

Isopropylbenzene

Concen: 0.431 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012299.D

Acq: 20 Aug 2019 01:27

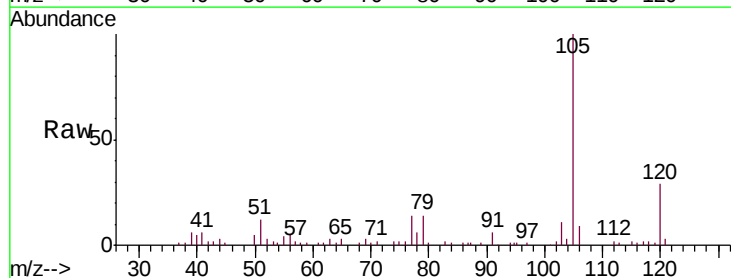
Tgt Ion:105 Resp: 34922

Ion Ratio Lower Upper

105 100

120 27.4 21.4 32.0

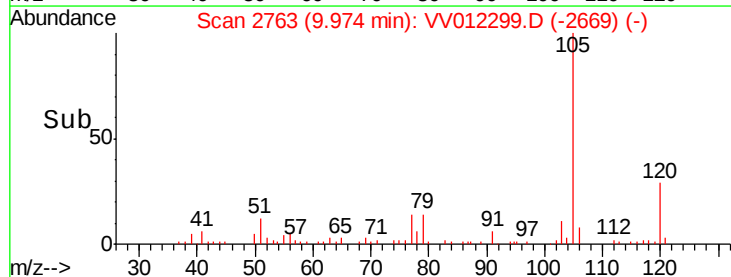
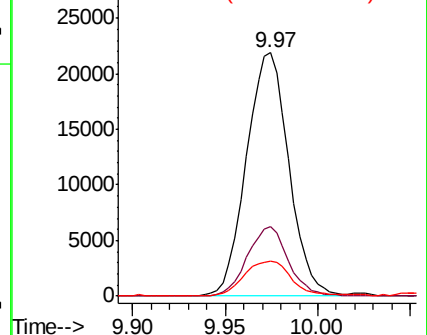
77 16.5 12.2 18.2

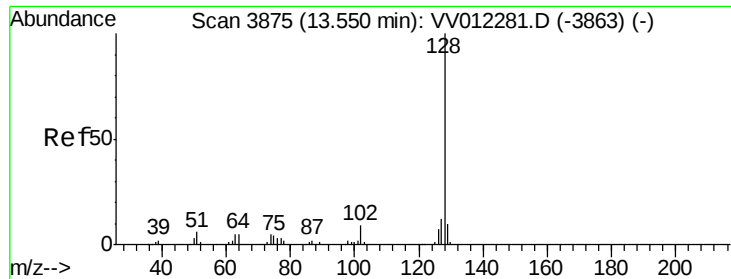


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VV0





#69

Naphthalene

Concen: 477.567 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV012299.D

Acq: 20 Aug 2019 01:27

Instrument :

MSVOA_V

ClientSampleId :

C0AE4

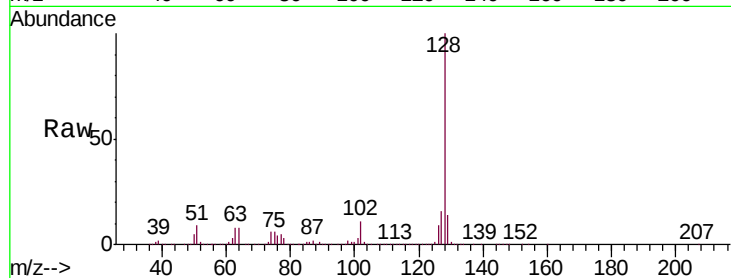
Tgt Ion:128 Resp:15617952

Ion Ratio Lower Upper

128 100

129 13.6 8.7 13.1#

127 15.9 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

