

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040619\
 Data File : VV010162.D
 Acq On : 06 Apr 2019 19:05
 Operator : SY/MD
 Sample : K2188-10
 Misc : 5.37G/10mL/MSVOA_V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BF654RE

Quant Time: Apr 07 00:54:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
 Quant Title : VOC Analysis
 QLast Update : Sun Apr 07 00:49:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	228887	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	165328	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	43469	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	51351	16.76	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	67.04%
7) Chloroethane-d5	1.57	69	56273	14.79	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	59.16%
10) 1,1-Dichloroethene-d2	2.13	63	114907	14.87	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	59.48%
20) 2-Butanone-d5	3.94	46	47969	55.01	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	110.02%
24) Chloroform-d	4.40	84	136533	23.68	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	94.72%
26) 1,2-Dichloroethane-d4	5.08	65	84571	26.21	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	104.84%
29) Benzene-d6	5.10	84	265278	30.94	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	123.76%
33) 1,2-Dichloropropane-d6	6.12	67	84315	33.32	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	133.28%#
37) Toluene-d8	7.36	98	212250	25.69	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	102.76%
38) trans-1,3-Dichloropropene-	7.66	79	28297	26.16	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	104.64%
39) 2-Hexanone-d5	8.13	63	35665	70.28	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	140.56%#
48) 1,1,2,2-Tetrachloroethane-	10.26	84	53779	21.55	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	86.20%
61) 1,2-Dichlorobenzene-d4	11.67	152	37456	22.12	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	88.48%

Target Compounds

					Qvalue
13) Acetone	2.19	43	23911	27.736	ug/L 100
14) Carbon disulfide	2.32	76	26791	4.125	ug/L 98
16) Methylene chloride	2.54	84	17185	4.273	ug/L 84
21) 2-Butanone	4.04	43	4725	5.005	ug/L 91
25) Chloroform	4.42	83	2283	0.439	ug/L # 61
30) Cyclohexane	4.72	56	6723	2.253	ug/L 90
36) Methylcyclohexane	6.17	83	26670	7.650	ug/L 93
44) Toluene	7.43	91	21329	2.351	ug/L 95
45) trans-1,3-Dichloropropene	7.67	75	1696	0.674	ug/L 100
46) 1,1,2-Trichloroethane	7.83	97	5115	2.824	ug/L # 21
53) Ethylbenzene	9.06	91	83891	8.431	ug/L 99
54) m,p-Xylene	9.18	106	112513	29.053	ug/L 97
55) o-xylene	9.59	106	62053	16.539	ug/L 96
56) Styrene	9.59	104	3702	0.596	ug/L # 1
57) Isopropylbenzene	9.97	105	51771	5.232	ug/L 99
58) 1,1,2,2-Tetrachloroethane	10.28	83	2351	1.011	ug/L # 35
69) Naphthalene	13.55	128	9917	4.108	ug/L # 92

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Quant Title : VOC Analysis
QLast Update : Sun Apr 07 00:49:32 2019
Response via : Initial Calibration

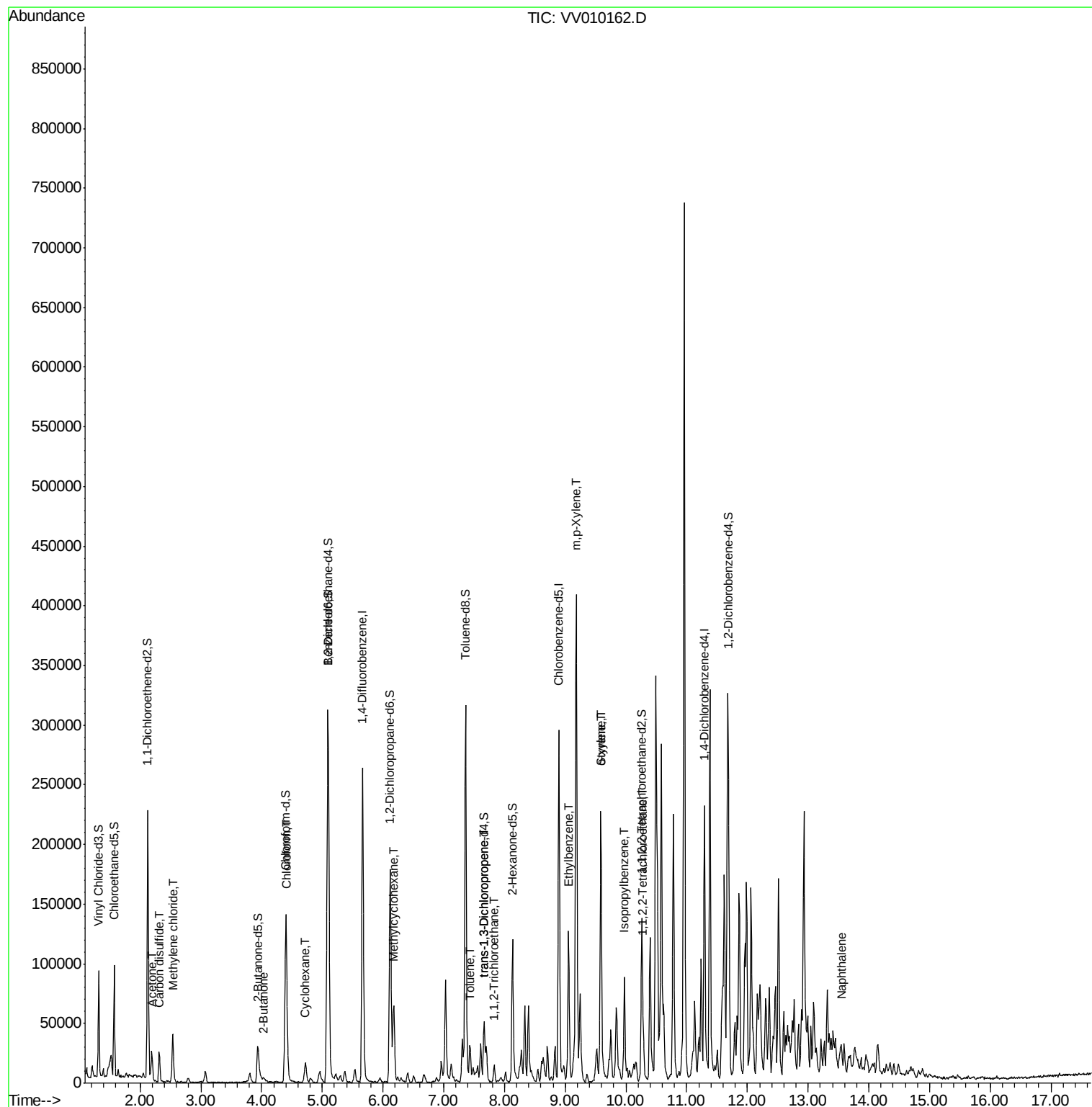
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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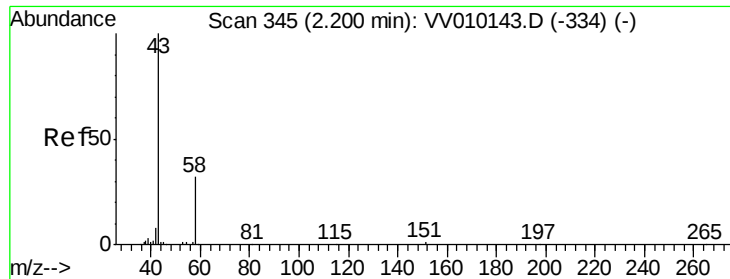
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_V\DATA\VV040619\
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Response via : Initial Calibration





#13

Acetone

Concen: 27.736 ug/L

RT: 2.19 min Scan# 343

Delta R.T. -0.01 min

Lab File: VV010162.D

Acq: 06 Apr 2019 19:05

Instrument :

MSVOA_V

ClientSampleId :

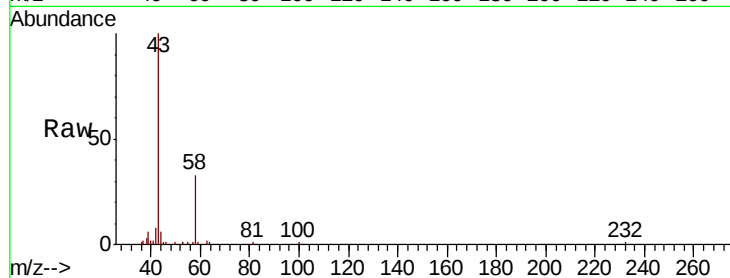
BF654RE

Tgt Ion: 43 Resp: 23911

Ion Ratio Lower Upper

43 100

58 32.2 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VV010143.D (-334) (-)

Ion 58.00 (57.70 to 58.70): VV010143.D (-334) (-)

2.19

15000

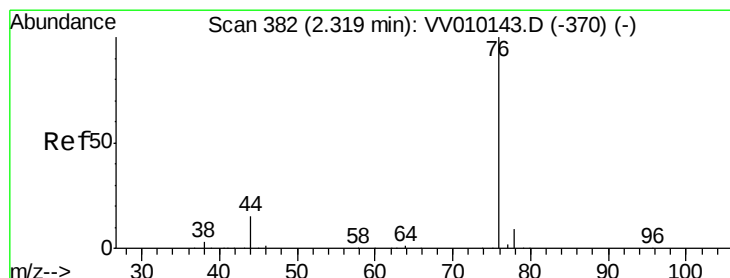
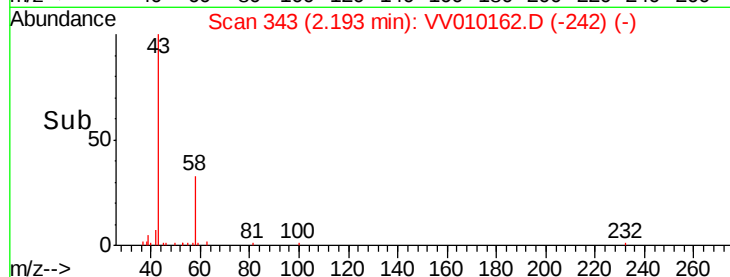
10000

5000

0

Time-->

2.15 2.20 2.25



#14

Carbon disulfide

Concen: 4.125 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV010162.D

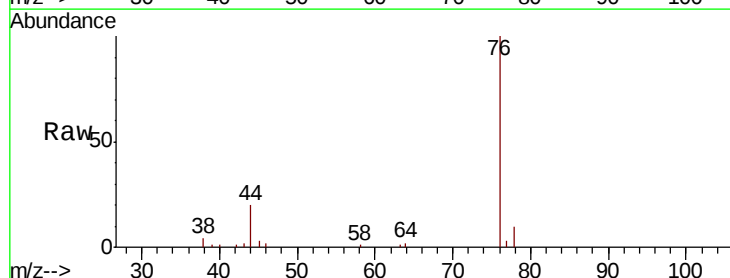
Acq: 06 Apr 2019 19:05

Tgt Ion: 76 Resp: 26791

Ion Ratio Lower Upper

76 100

78 9.7 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV010143.D (-370) (-)

Ion 78.00 (77.70 to 78.70): VV010143.D (-370) (-)

2.32

20000

15000

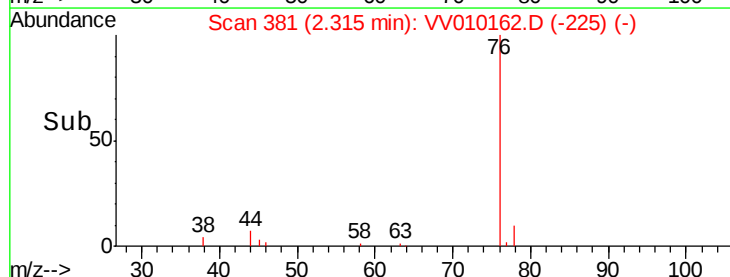
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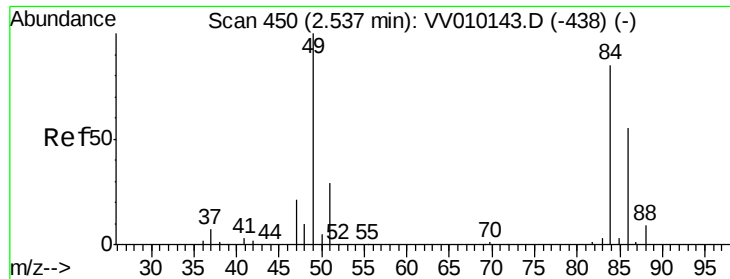
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0

Time-->

2.25 2.30 2.35

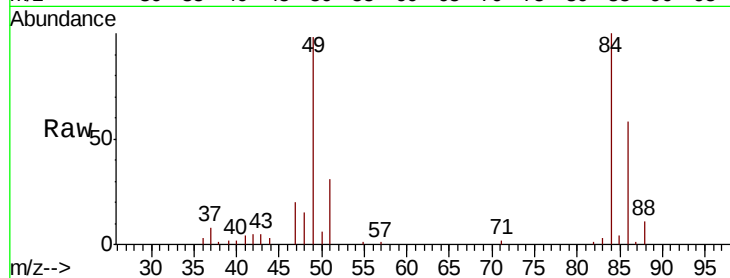




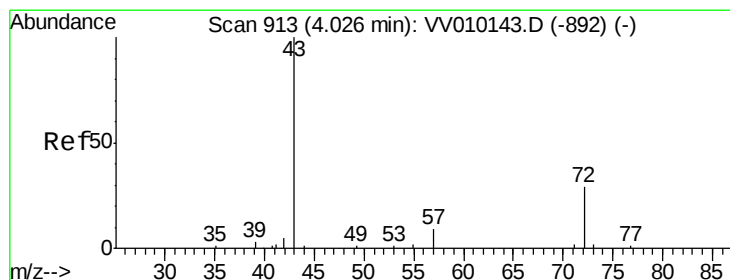
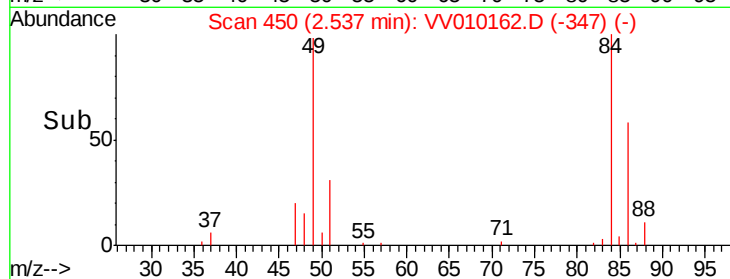
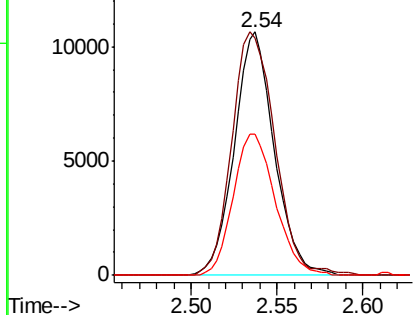
#16
Methylene chloride
Concen: 4.273 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV010162.D
Acq: 06 Apr 2019 19:05

Instrument :
MSVOA_V
ClientSampleId :
BF654RE

Tgt Ion: 84 Resp: 17185
Ion Ratio Lower Upper
84 100
49 97.6 84.3 156.5
86 58.3 45.4 84.2

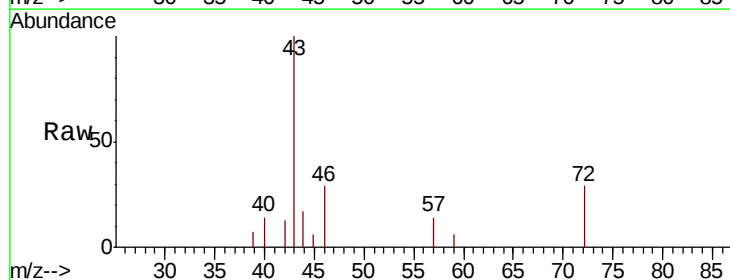


Abundance Ion 84.00 (83.70 to 84.70): VV0
Ion 49.00 (48.70 to 49.70): VV0
Ion 86.00 (85.70 to 86.70): VV0

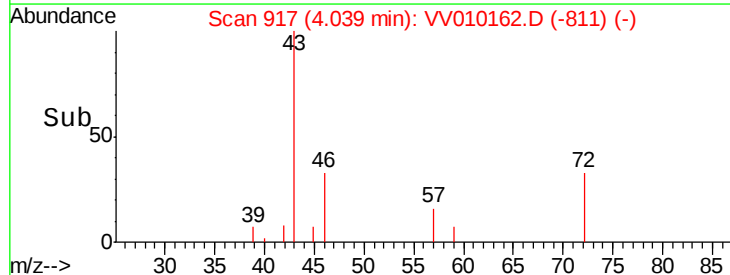
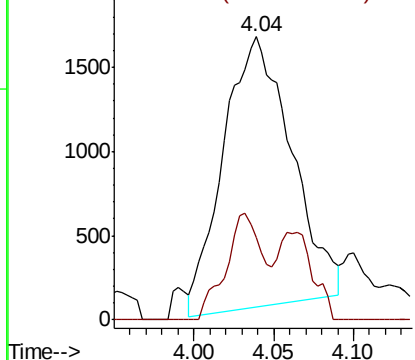


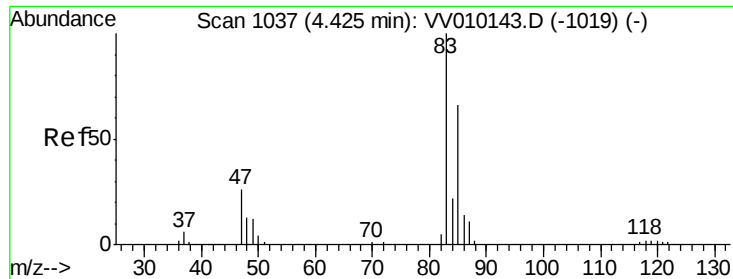
#21
2-Butanone
Concen: 5.005 ug/L
RT: 4.04 min Scan# 917
Delta R.T. 0.01 min
Lab File: VV010162.D
Acq: 06 Apr 2019 19:05

Tgt Ion: 43 Resp: 4725
Ion Ratio Lower Upper
43 100
72 21.0 12.8 38.4



Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 72.00 (71.70 to 72.70): VV0

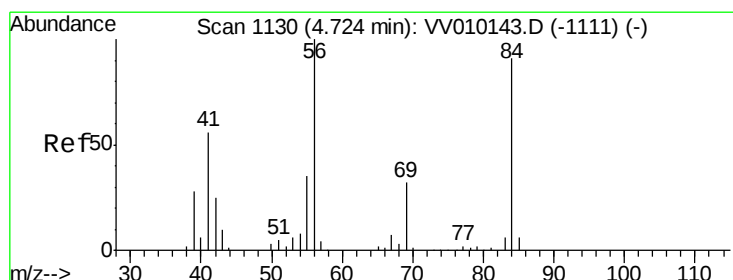
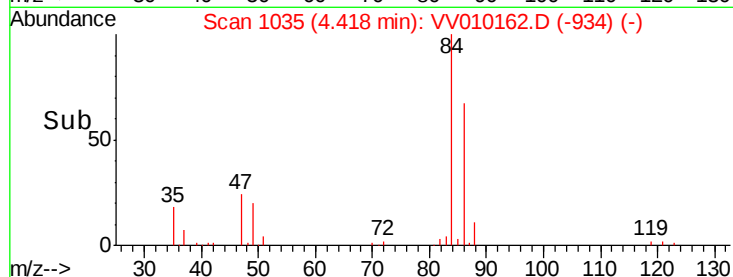
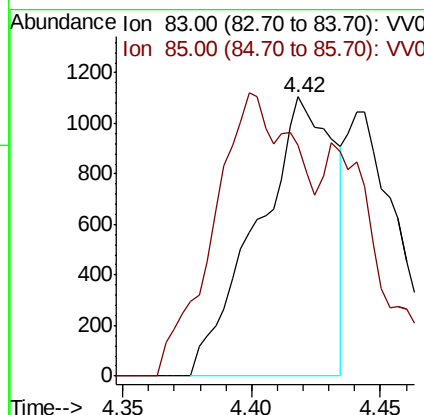
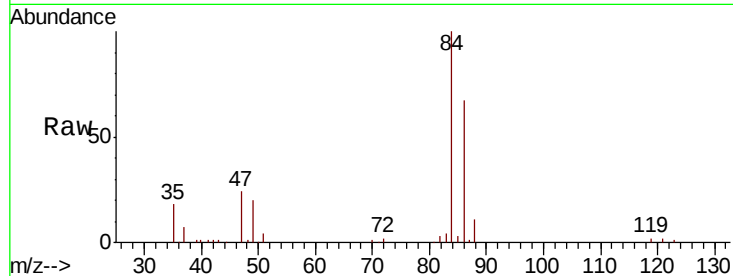




#25
Chloroform
Concen: 0.439 ug/L
RT: 4.42 min Scan# 1035
Delta R.T. -0.01 min
Lab File: VV010162.D
Acq: 06 Apr 2019 19:05

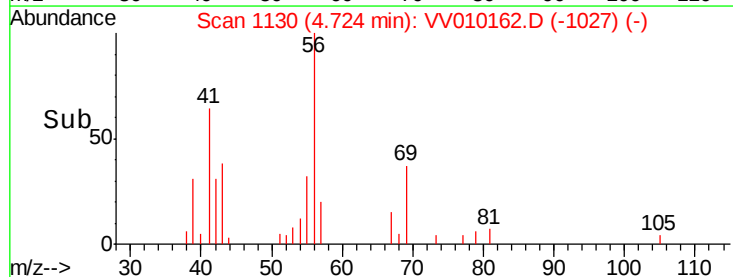
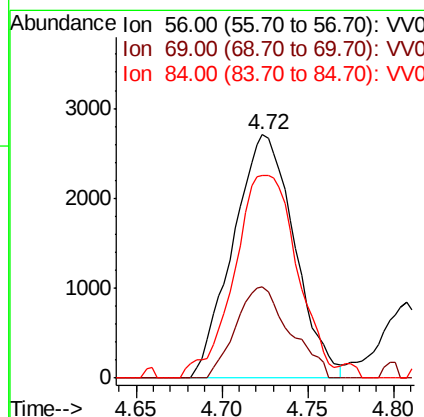
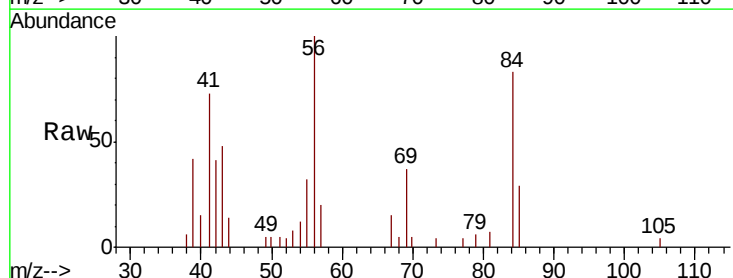
Instrument :
MSVOA_V
ClientSampled :
BF654RE

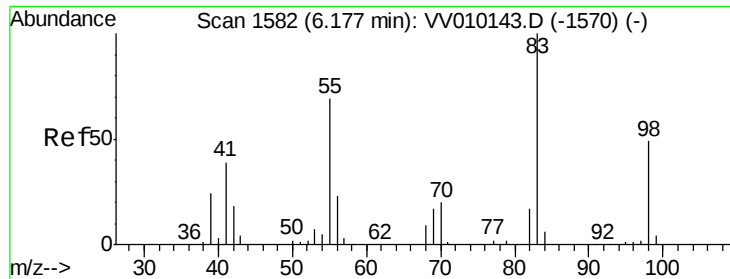
Tgt Ion: 83 Resp: 2283
Ion Ratio Lower Upper
83 100
85 34.8 46.4 86.2#



#30
Cyclohexane
Concen: 2.253 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. 0.00 min
Lab File: VV010162.D
Acq: 06 Apr 2019 19:05

Tgt Ion: 56 Resp: 6723
Ion Ratio Lower Upper
56 100
69 33.1 25.1 37.7
84 83.1 76.0 114.0

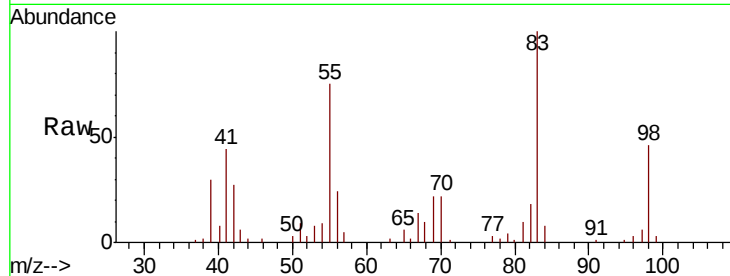




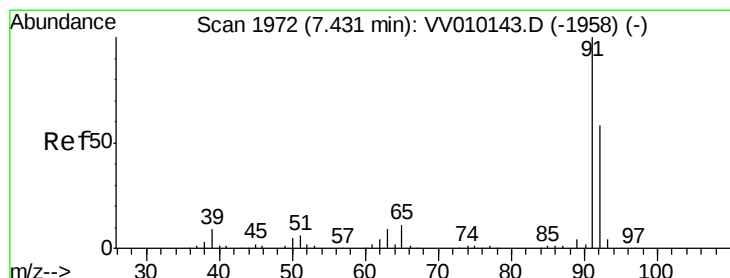
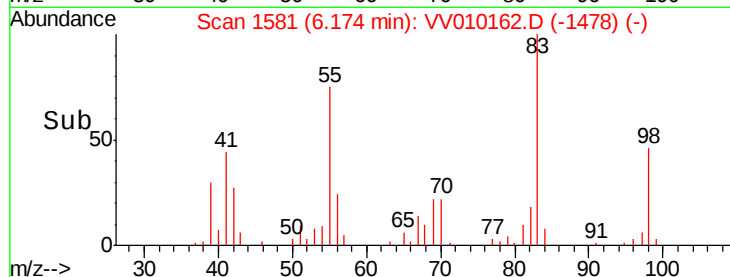
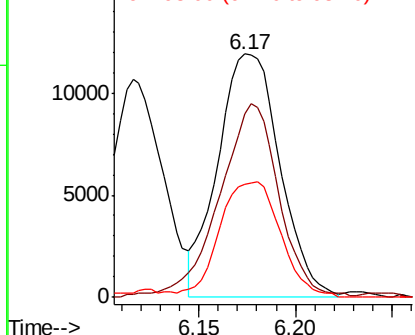
#36
Methylcyclohexane
Concen: 7.650 ug/L
RT: 6.17 min Scan# 1581
Delta R.T. 0.00 min
Lab File: VV010162.D
Acq: 06 Apr 2019 19:05

Instrument :
MSVOA_V
ClientSampleId :
BF654RE

Tgt Ion: 83 Resp: 26670
Ion Ratio Lower Upper
83 100
55 76.3 56.3 84.5
98 44.1 39.0 58.6

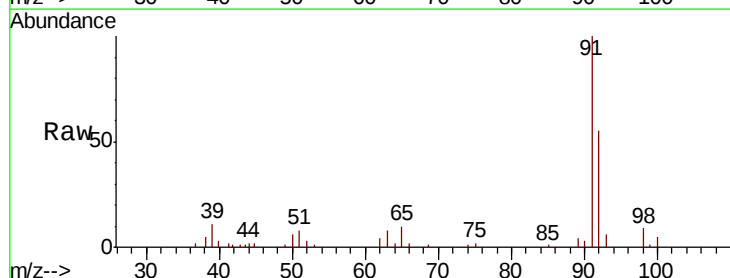


Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 55.00 (54.70 to 55.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

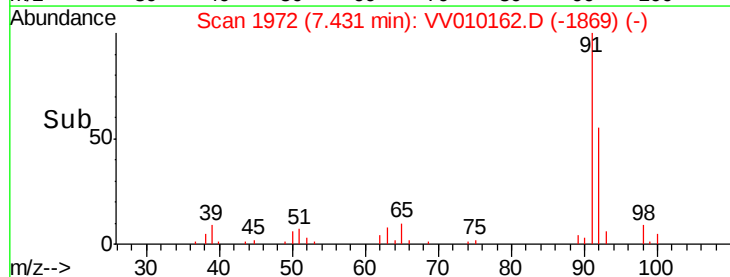
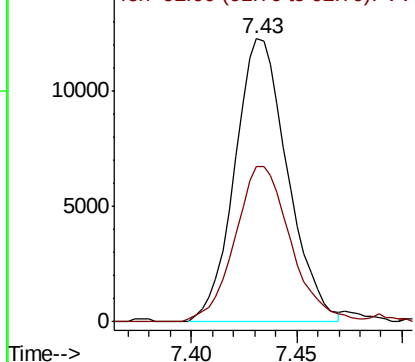


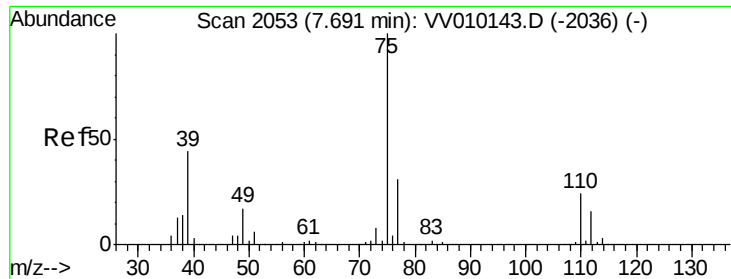
#44
Toluene
Concen: 2.351 ug/L
RT: 7.43 min Scan# 1972
Delta R.T. 0.00 min
Lab File: VV010162.D
Acq: 06 Apr 2019 19:05

Tgt Ion: 91 Resp: 21329
Ion Ratio Lower Upper
91 100
92 55.0 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV0
Ion 92.00 (91.70 to 92.70): VV0

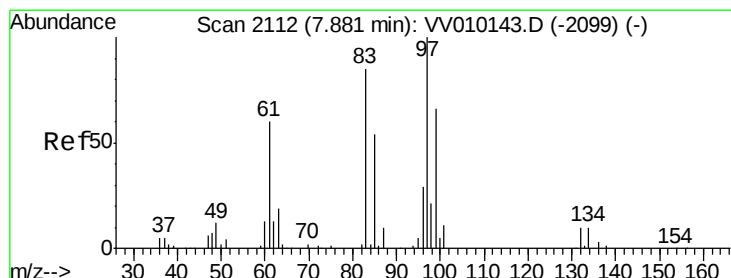
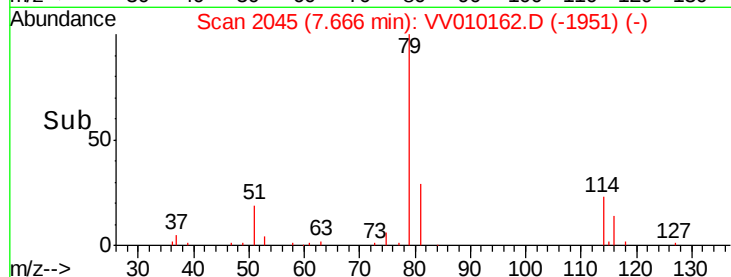
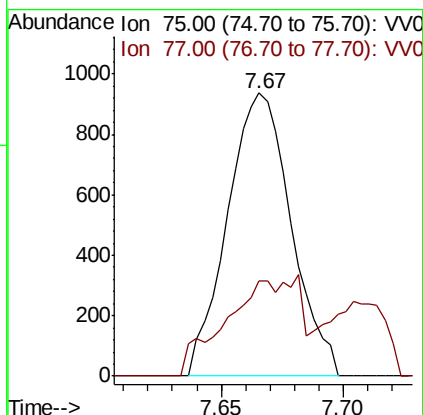
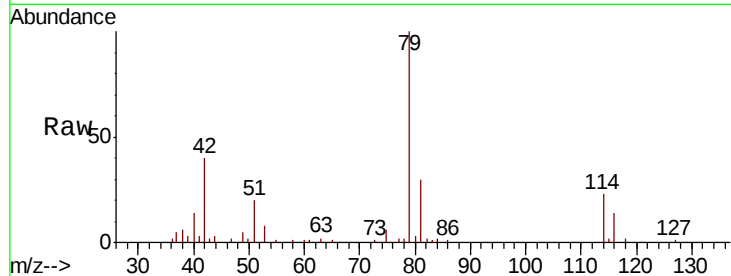




#45
trans-1,3-Dichloropropene
Concen: 0.674 ug/L
RT: 7.67 min Scan# 2045
Delta R.T. -0.03 min
Lab File: VV010162.D
Acq: 06 Apr 2019 19:05

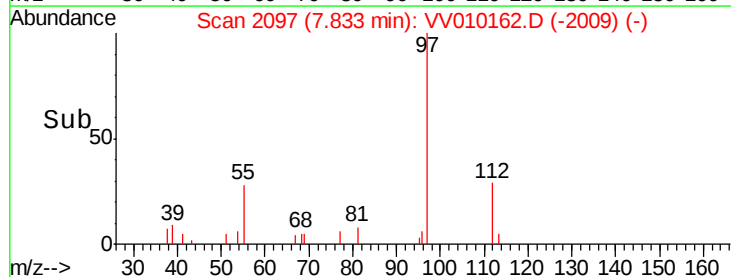
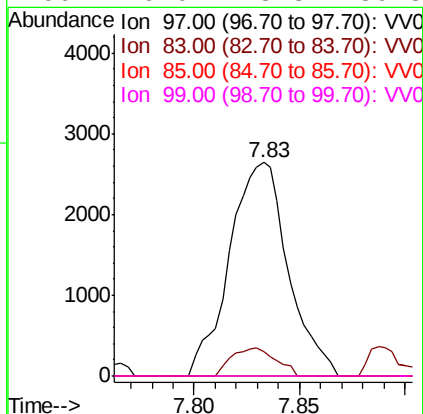
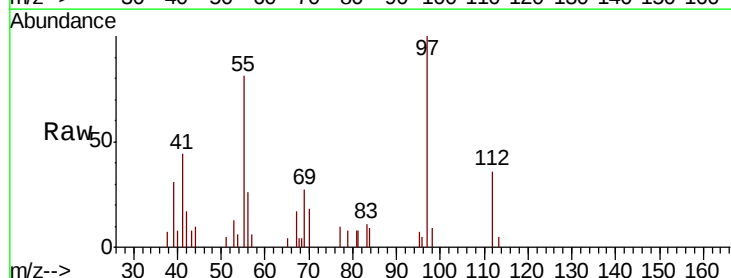
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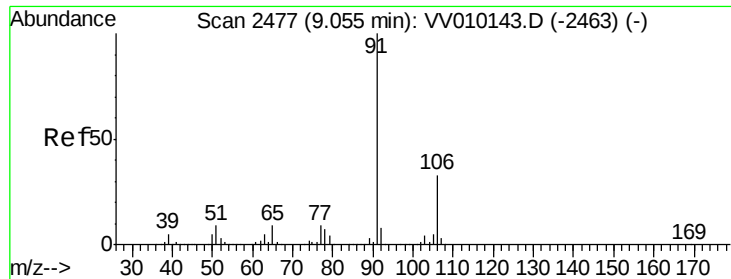
Tgt Ion: 75 Resp: 1696
Ion Ratio Lower Upper
75 100
77 33.5 23.5 43.7



#46
1,1,2-Trichloroethane
Concen: 2.824 ug/L
RT: 7.83 min Scan# 2097
Delta R.T. -0.05 min
Lab File: VV010162.D
Acq: 06 Apr 2019 19:05

Tgt Ion: 97 Resp: 5115
Ion Ratio Lower Upper
97 100
83 11.5 58.5 108.7#
85 0.0 37.2 69.2#
99 0.0 43.3 80.3#





#53

Ethylbenzene

Concen: 8.431 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV010162.D

Acq: 06 Apr 2019 19:05

Instrument :

MSVOA_V

ClientSampleId :

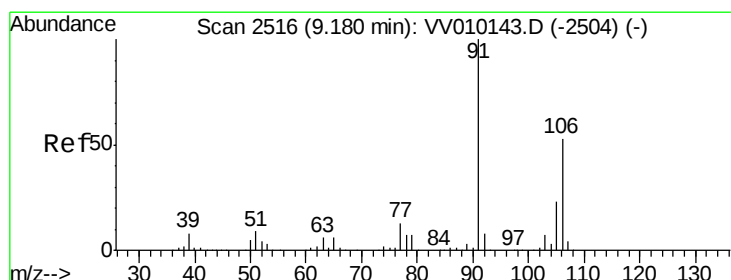
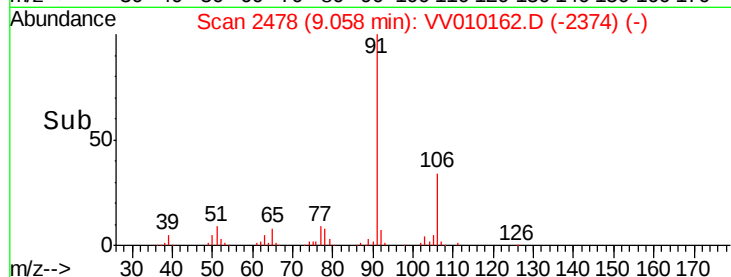
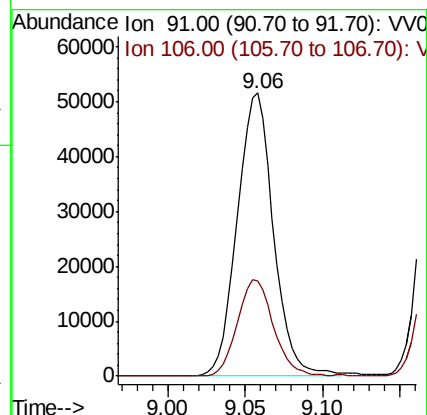
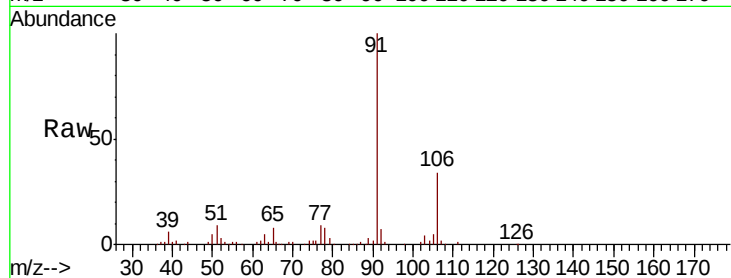
BF654RE

Tgt Ion: 91 Resp: 83891

Ion Ratio Lower Upper

91 100

106 33.7 23.1 42.9



#54

m,p-Xylene

Concen: 29.053 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV010162.D

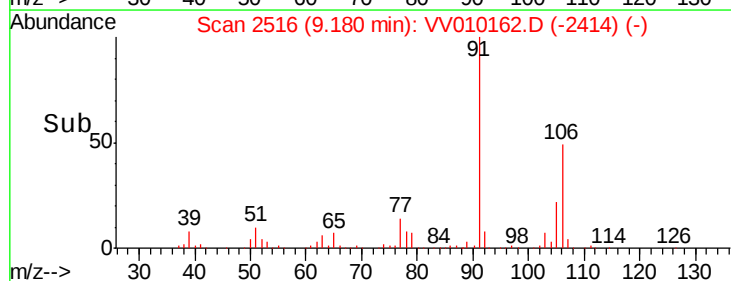
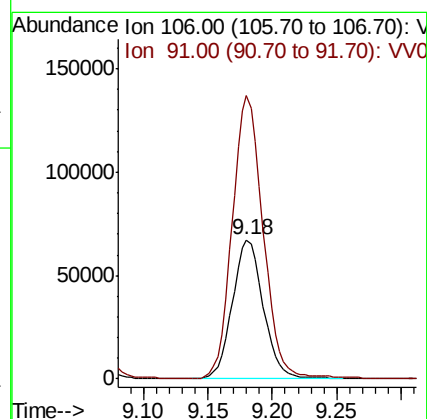
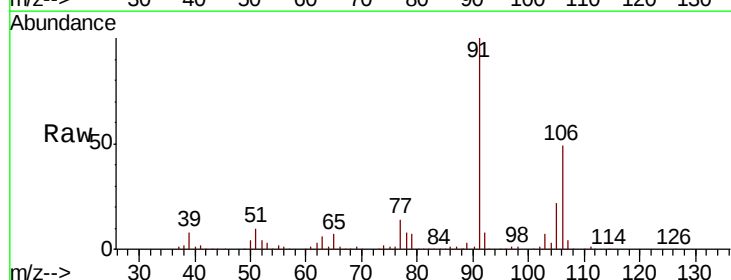
Acq: 06 Apr 2019 19:05

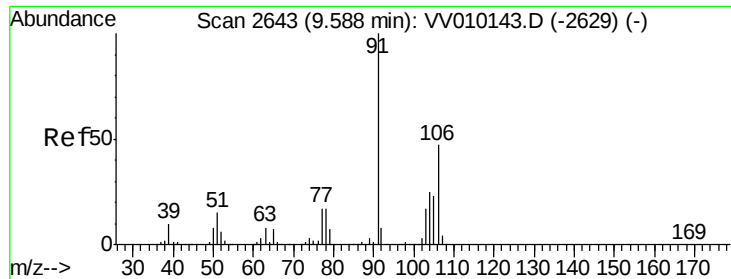
Tgt Ion: 106 Resp: 112513

Ion Ratio Lower Upper

106 100

91 203.6 139.3 258.7





#55

o-xylene

Concen: 16.539 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV010162.D

Acq: 06 Apr 2019 19:05

Instrument :

MSVOA_V

ClientSampleId :

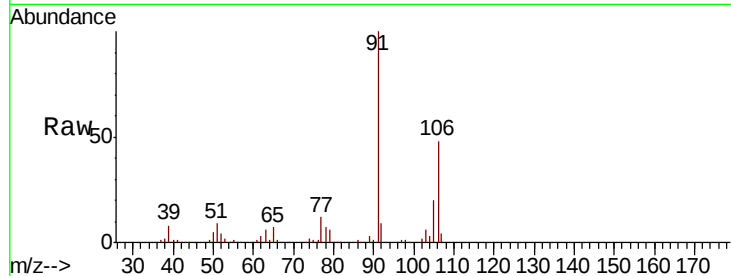
BF654RE

Tgt Ion:106 Resp: 62053

Ion Ratio Lower Upper

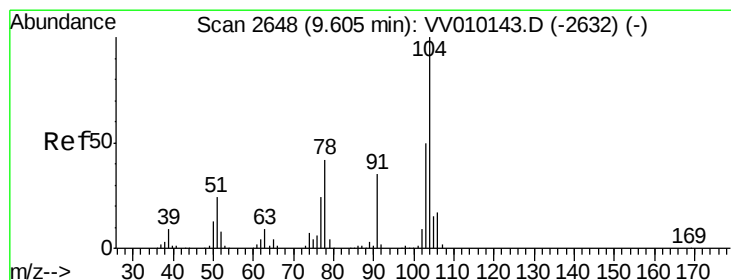
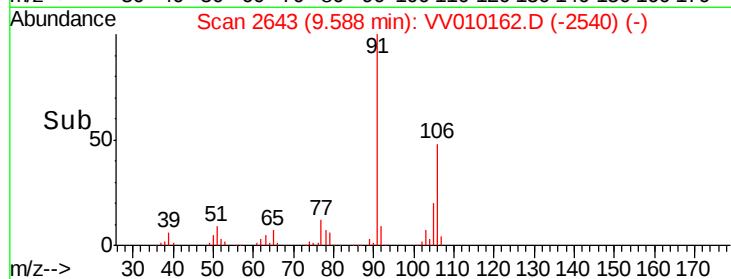
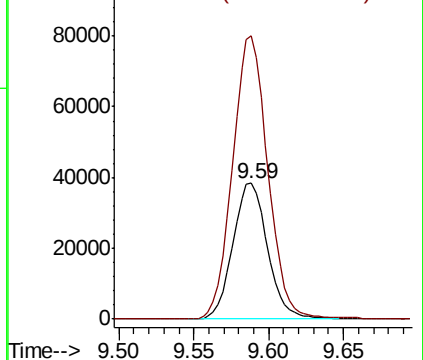
106 100

91 208.2 150.4 279.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 0.596 ug/L

RT: 9.59 min Scan# 2644

Delta R.T. -0.01 min

Lab File: VV010162.D

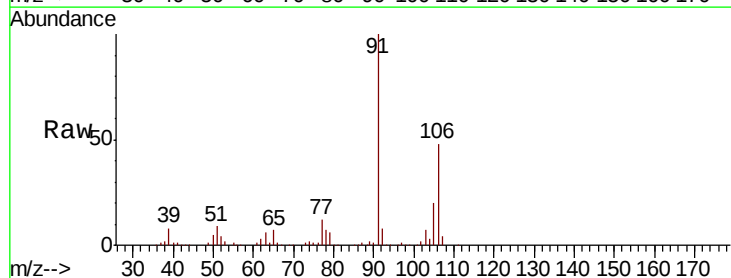
Acq: 06 Apr 2019 19:05

Tgt Ion:104 Resp: 3702

Ion Ratio Lower Upper

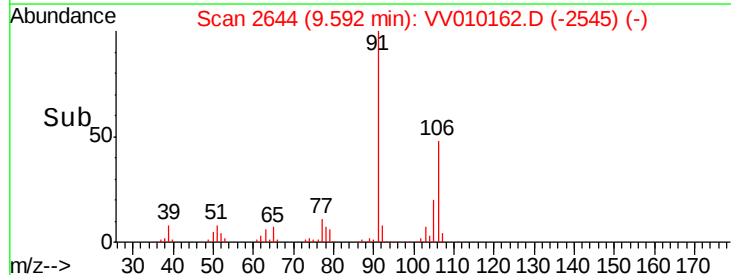
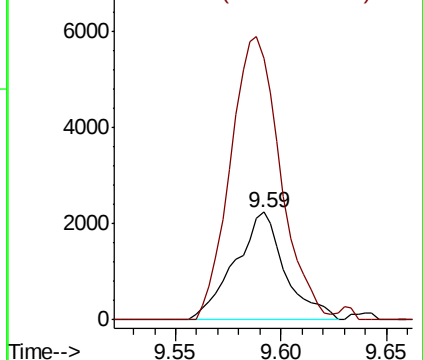
104 100

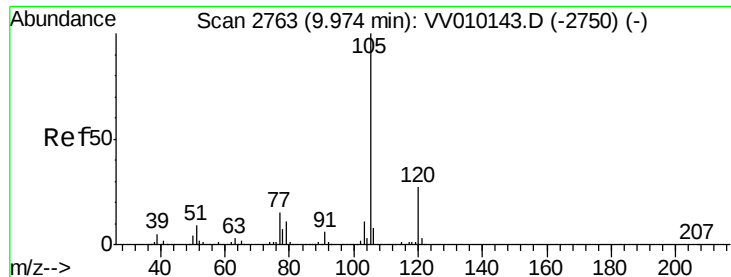
78 243.1 30.5 56.7#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 5.232 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV010162.D

Acq: 06 Apr 2019 19:05

Instrument :

MSVOA_V

ClientSampleId :

BF654RE

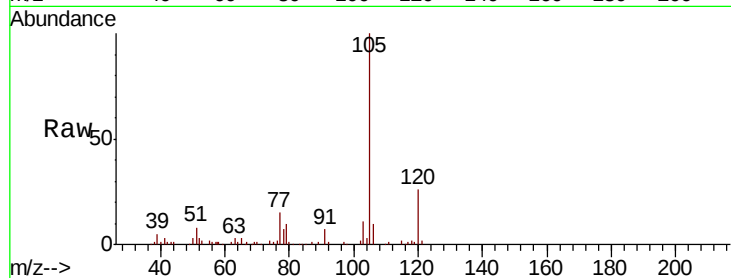
Tgt Ion: 105 Resp: 51771

Ion Ratio Lower Upper

105 100

120 26.8 21.5 32.3

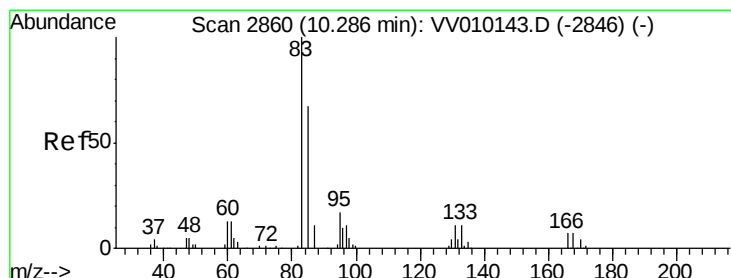
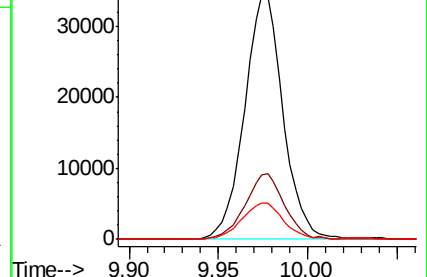
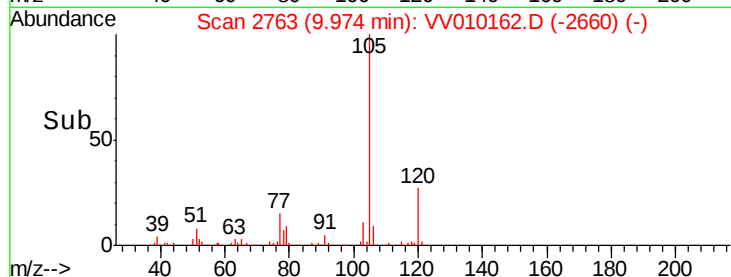
77 16.1 12.4 18.6



Abundance Ion 105.00 (104.70 to 105.70): VV010162.D (-2757) (-)

Ion 120.00 (119.70 to 120.70): VV010162.D (-2757) (-)

Ion 77.00 (76.70 to 77.70): VV010162.D (-2757) (-)



#58

1,1,2,2-Tetrachloroethane

Concen: 1.011 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV010162.D

Acq: 06 Apr 2019 19:05

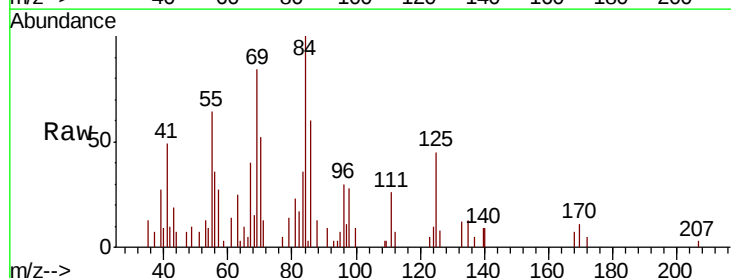
Tgt Ion: 83 Resp: 2351

Ion Ratio Lower Upper

83 100

85 9.1 46.1 85.7#

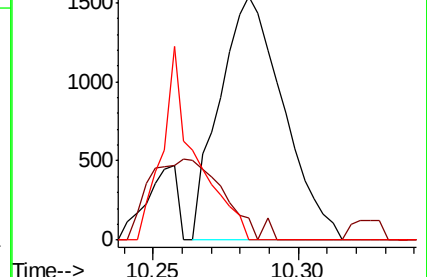
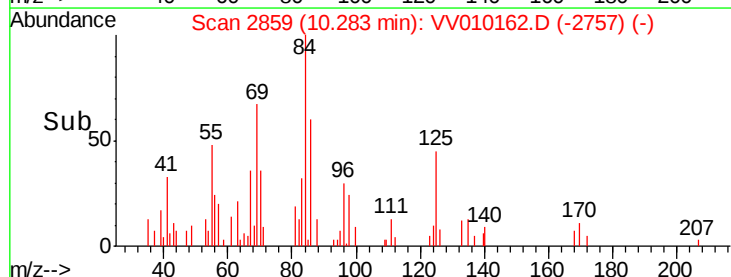
131 0.0 9.0 13.4#

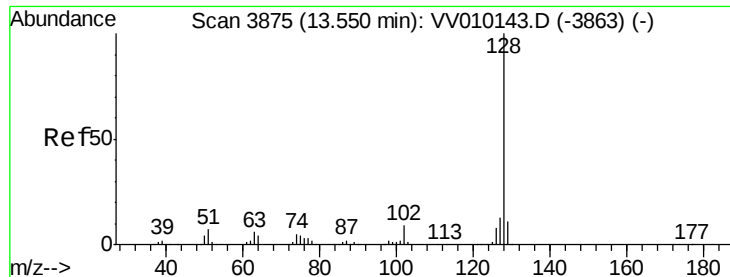


Abundance Ion 83.00 (82.70 to 83.70): VV010162.D (-2757) (-)

Ion 85.00 (84.70 to 85.70): VV010162.D (-2757) (-)

Ion 131.00 (130.70 to 131.70): VV010162.D (-2757) (-)





#69

Naphthalene

Concen: 4.108 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV010162.D

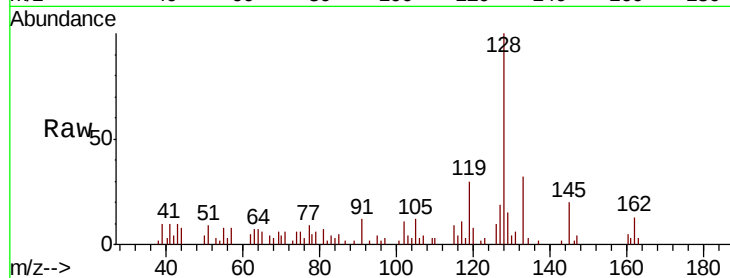
Acq: 06 Apr 2019 19:05

Instrument :

MSVOA_V

ClientSampleId :

BF654RE



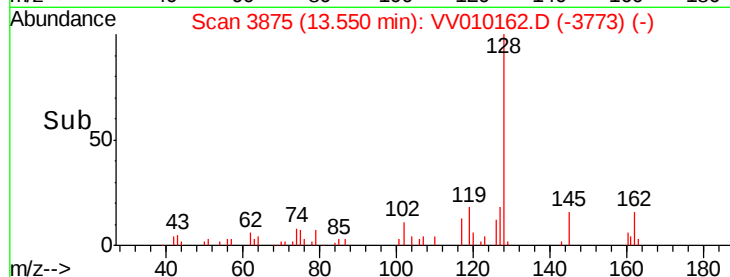
Tgt Ion:128 Resp: 9917

Ion Ratio Lower Upper

128 100

129 8.2 9.0 13.4#

127 16.8 11.0 16.4#



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

