

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102119\
 Data File : VX013155.D
 Acq On : 21 Oct 2019 16:26
 Operator : JC/SP
 Sample : VX1021WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1021WBL01

Quant Time: Oct 22 01:57:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 22 01:53:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	27640	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	155470	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	135497	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	62797	28.86	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.20%
60) 4-Bromofluorobenzene	11.13	95	63721	27.01	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.03%
63) Toluene-d8	8.71	98	184063	30.54	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.80%

Target Compounds

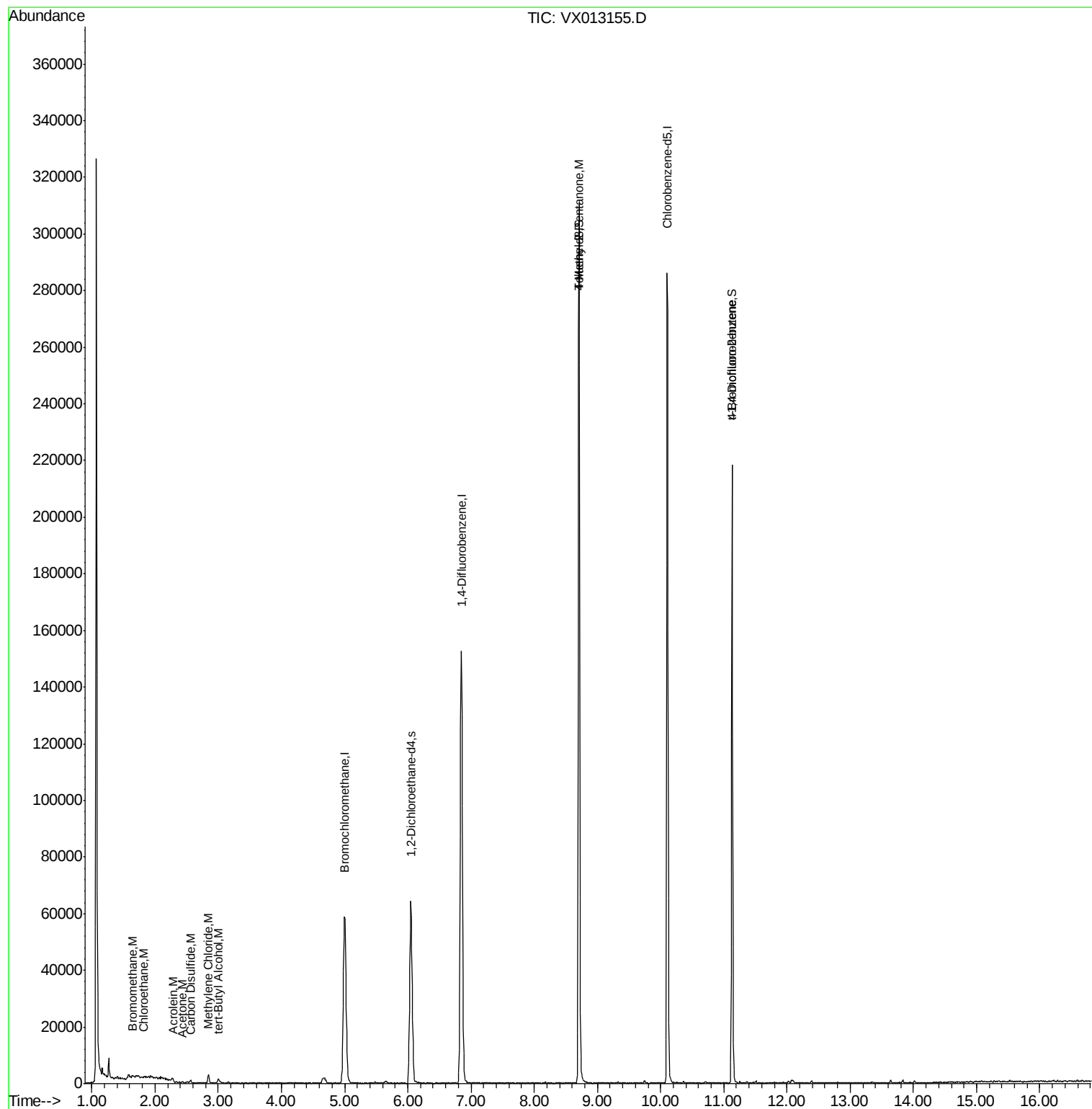
					Ovalue	
5) Bromomethane	1.65	94	447	0.463	ug/l	83
6) Chloroethane	1.82	64	291	0.255	ug/l	92
13) Acrolein	2.28	56	108	0.331	ug/l #	15
15) Acetone	2.43	58	67	0.222	ug/l #	1
16) Carbon Disulfide	2.56	76	1397	0.309	ug/l #	78
18) Methylene Chloride	2.84	84	1371	0.698	ug/l #	79
23) tert-Butyl Alcohol	3.00	59	974	2.019	ug/l #	100
58) 4-Methyl-2-Pentanone	8.71	43	815	0.357	ug/l #	1
77) t-1,4-Dichloro-2-butene	11.13	75	31014	35.810	ug/l #	9

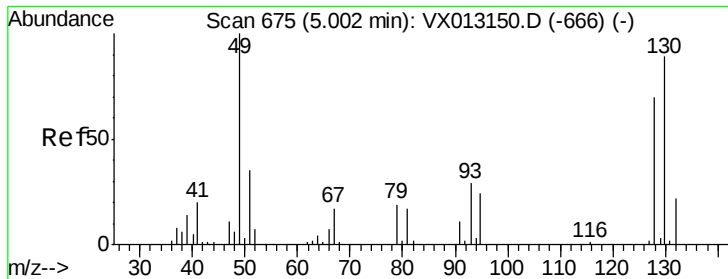
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 22 01:57:20 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X102119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Oct 22 01:53:07 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.00 min Scan# 674

Delta R.T. -0.01 min

Lab File: VX013155.D

Acq: 21 Oct 2019 16:26

Instrument :

MSVOA_X

ClientSampleId :

VX1021WBL01

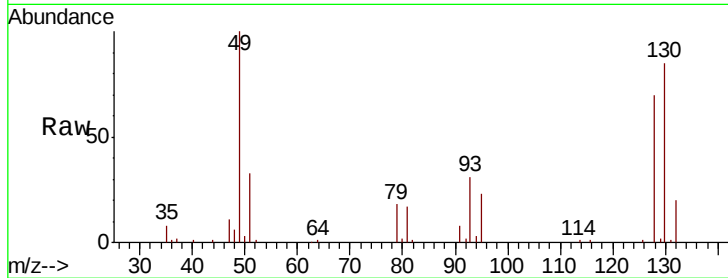
Tot Ion:128 Resp: 27640

Ion Ratio Lower Upper

128 100

49 141.2 0.0 367.3

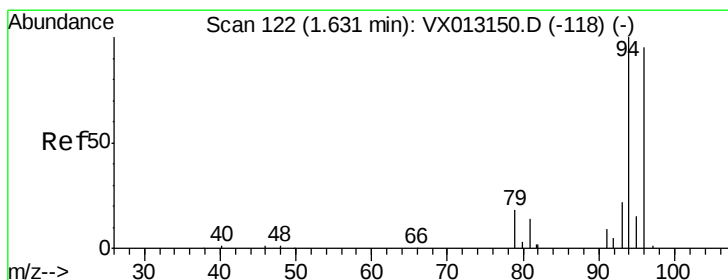
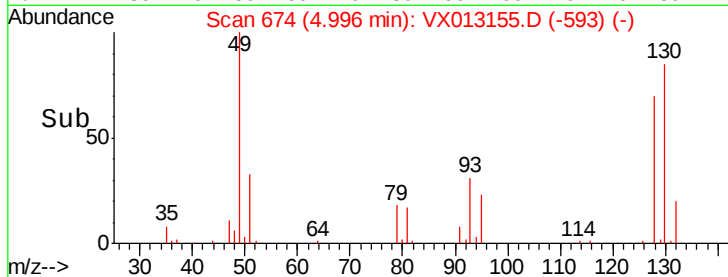
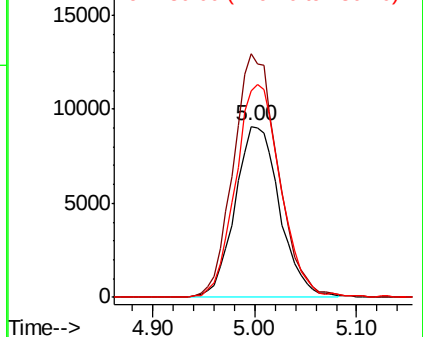
130 124.4 0.0 325.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.463 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX013155.D

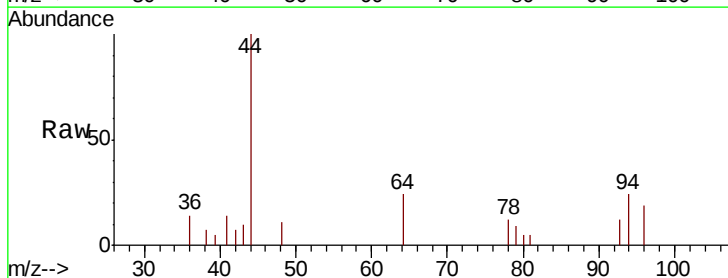
Acq: 21 Oct 2019 16:26

Tgt Ion: 94 Resp: 447

Ion Ratio Lower Upper

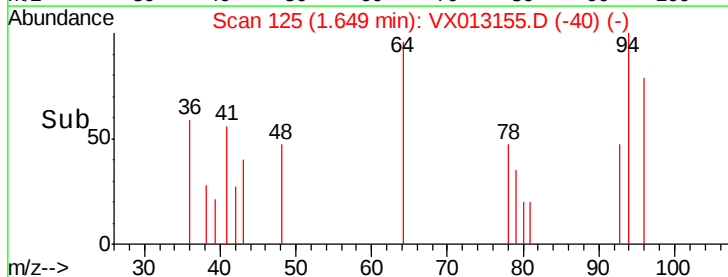
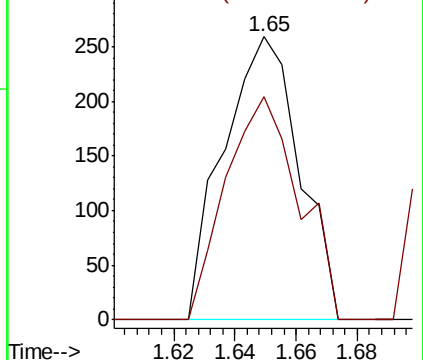
94 100

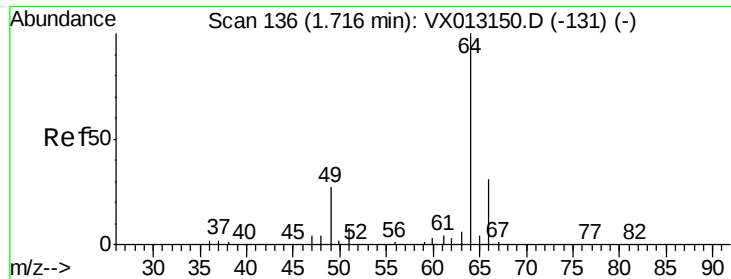
96 78.8 75.9 113.9



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0





#6

Chloroethane

Concen: 0.255 ug/l

RT: 1.82 min Scan# 153

Delta R.T. 0.10 min

Lab File: VX013155.D

Acq: 21 Oct 2019 16:26

Instrument :

MSVOA_X

ClientSampled :

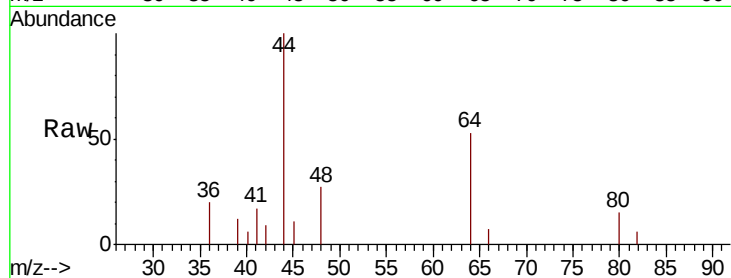
VX1021WBL01

Tot Ion: 64 Resp: 291

Ion Ratio Lower Upper

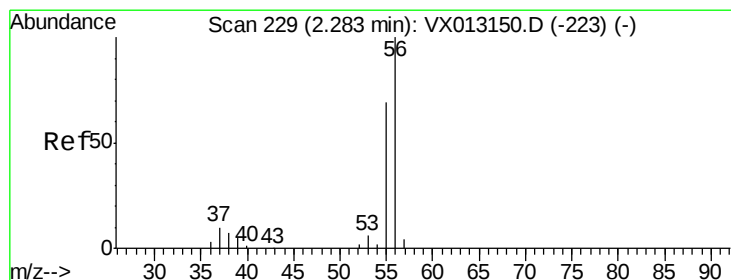
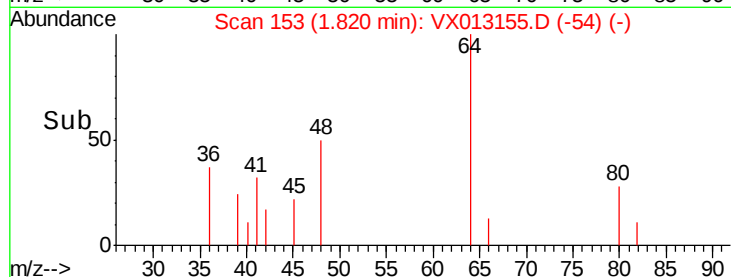
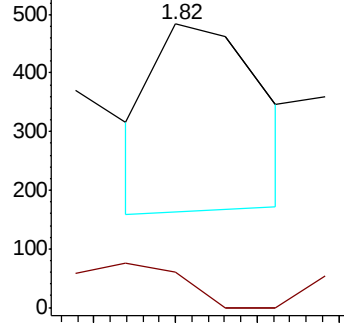
64 100

66 36.3 25.4 38.2



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0



#13

Acrolein

Concen: 0.331 ug/l

RT: 2.28 min Scan# 229

Delta R.T. -0.00 min

Lab File: VX013155.D

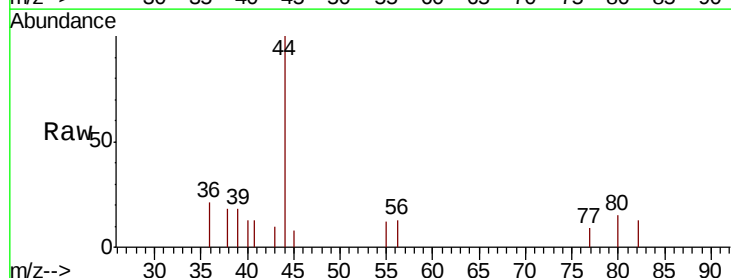
Acq: 21 Oct 2019 16:26

Tgt Ion: 56 Resp: 108

Ion Ratio Lower Upper

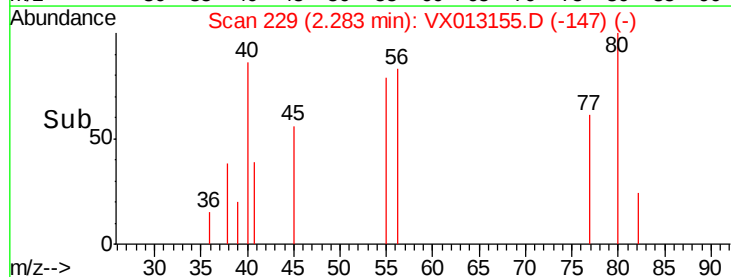
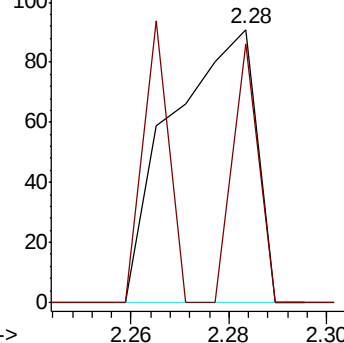
56 100

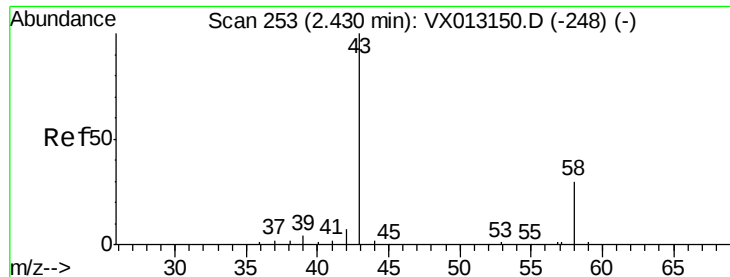
55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acetone

Concen: 0.222 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013155.D

Acq: 21 Oct 2019 16:26

Instrument :

MSVOA_X

ClientSampleId :

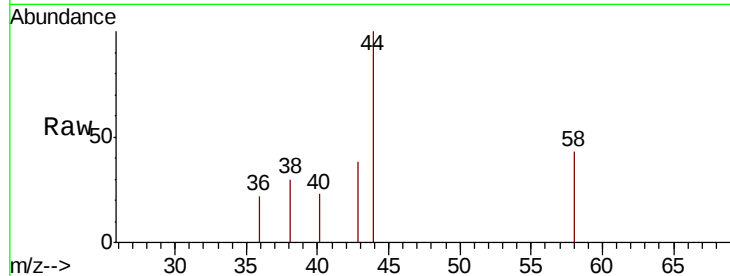
VX1021WBL01

Tot Ion: 58 Resp: 67

Ion Ratio Lower Upper

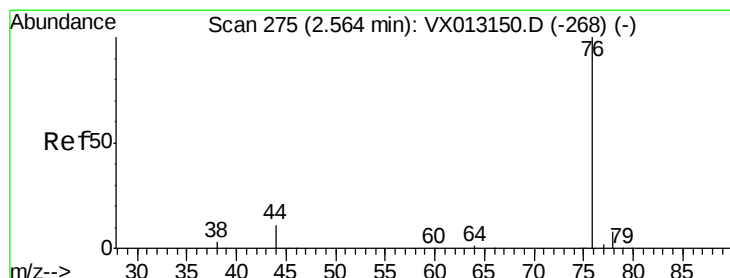
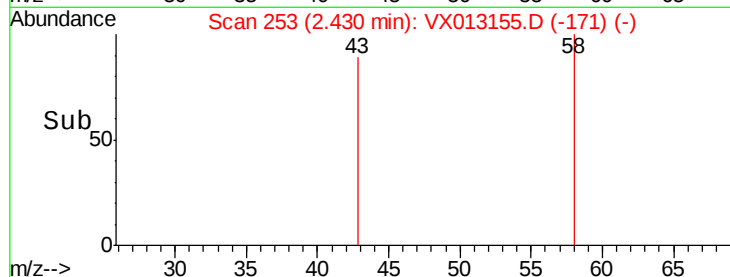
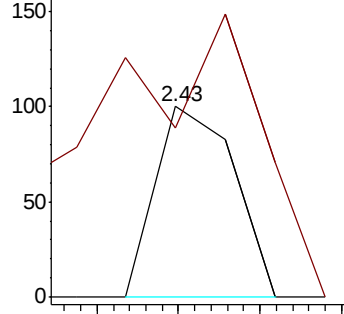
58 100

43 18.0 262.8 394.2#



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#16

Carbon Disulfide

Concen: 0.309 ug/l

RT: 2.56 min Scan# 275

Delta R.T. -0.00 min

Lab File: VX013155.D

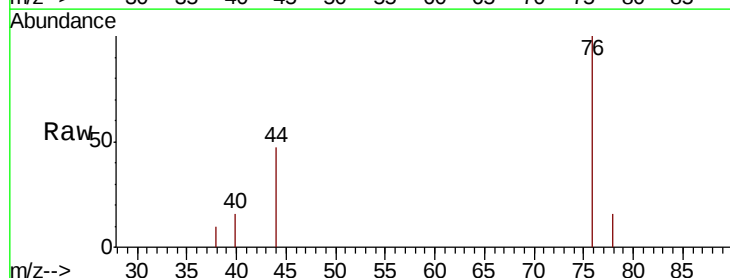
Acq: 21 Oct 2019 16:26

Tgt Ion: 76 Resp: 1397

Ion Ratio Lower Upper

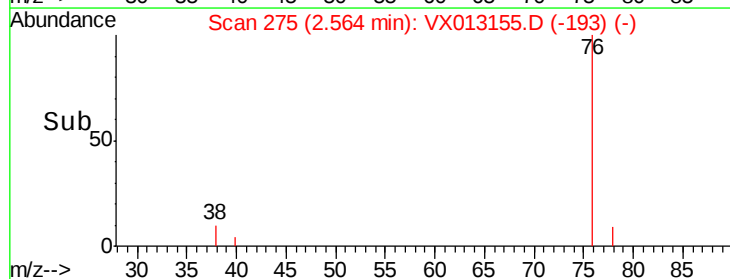
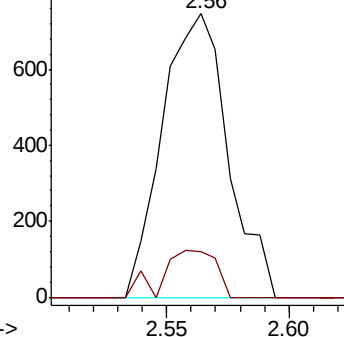
76 100

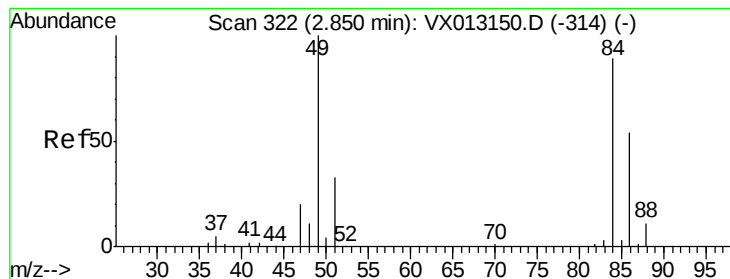
78 16.2 6.6 10.0#



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0





#18

Methvlene Chloride

Concen: 0.698 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.01 min

Lab File: VX013155.D

Acq: 21 Oct 2019 16:26

Instrument :

MSVOA_X

ClientSampled :

VX1021WBL01

Tot Ion: 84 Resp: 1371

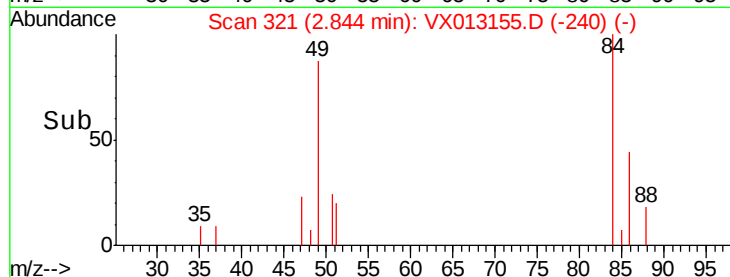
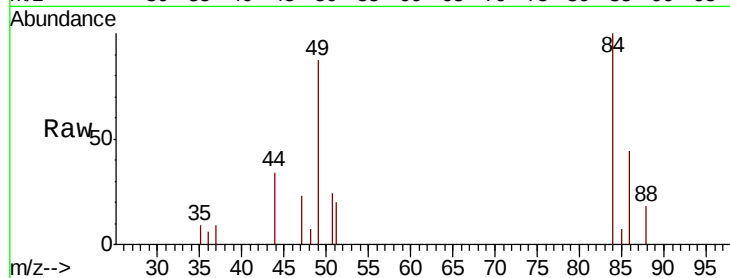
Ion Ratio Lower Upper

84 100

49 87.2 90.3 135.5#

51 44.1 29.9 44.9

86 43.9 49.0 73.4#

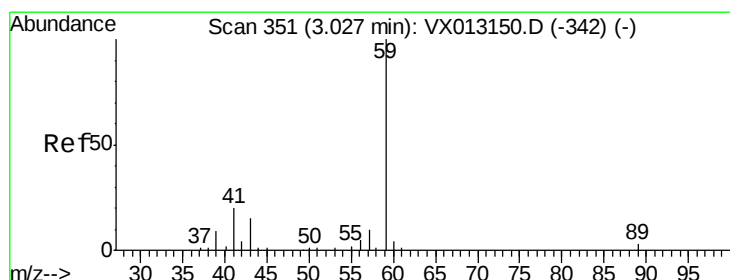
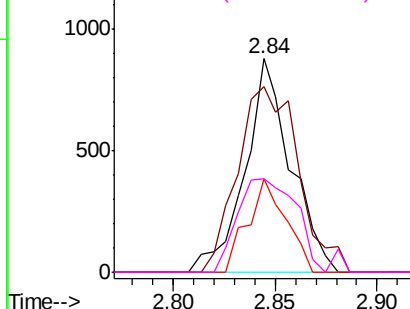


Abundance Ion 84.00 (83.70 to 84.70): VX0

Ion 49.00 (48.70 to 49.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#23

tert-Butyl Alcohol

Concen: 2.019 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.02 min

Lab File: VX013155.D

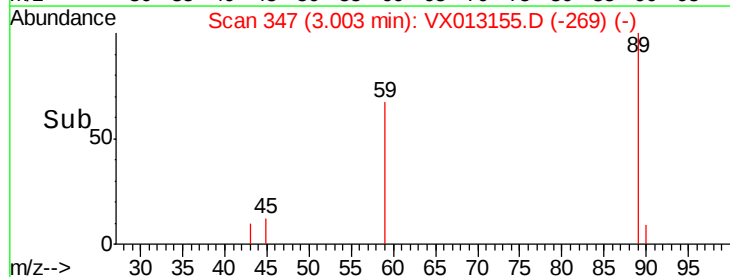
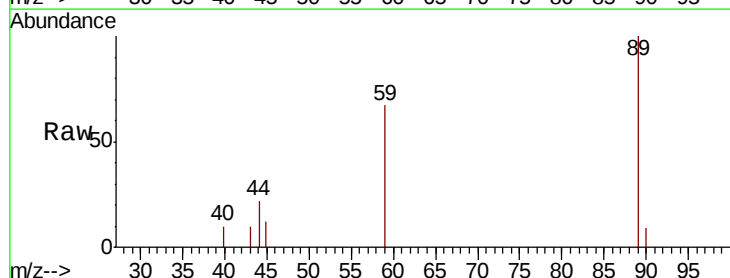
Acq: 21 Oct 2019 16:26

Tgt Ion: 59 Resp: 974

Ion Ratio Lower Upper

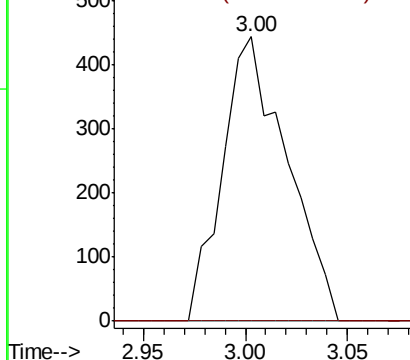
59 100

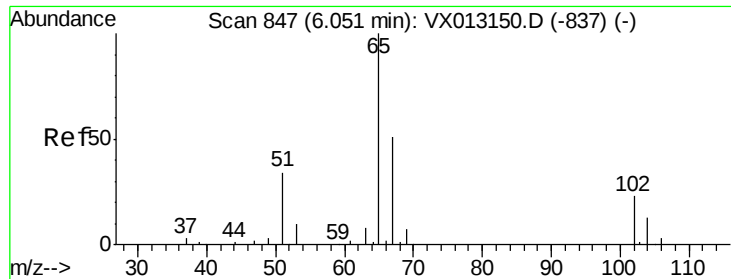
52 4.5 0.0 0.0#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#27

1,2-Dichloroethane-d4

Concen: 28.861 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013155.D

Acq: 21 Oct 2019 16:26

Instrument :

MSVOA_X

ClientSampleId :

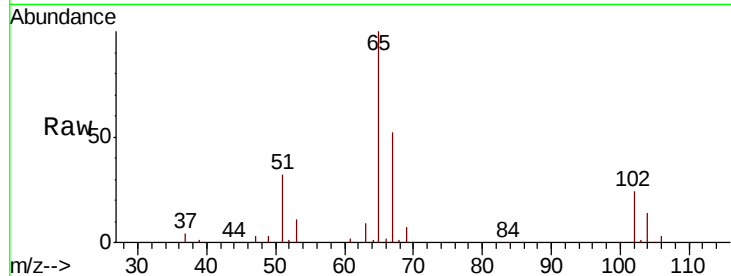
VX1021WBL01

Tot Ion: 65 Resp: 62797

Ion Ratio Lower Upper

65 100

67 52.1 42.2 63.4



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

6.05

25000

20000

15000

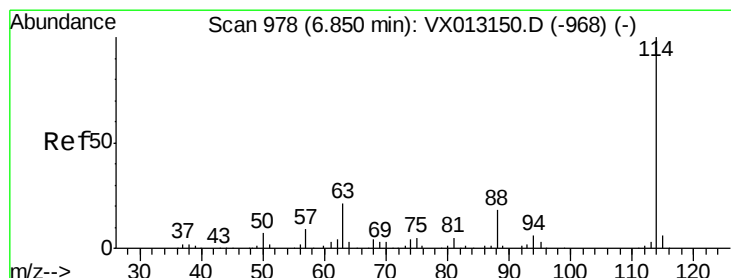
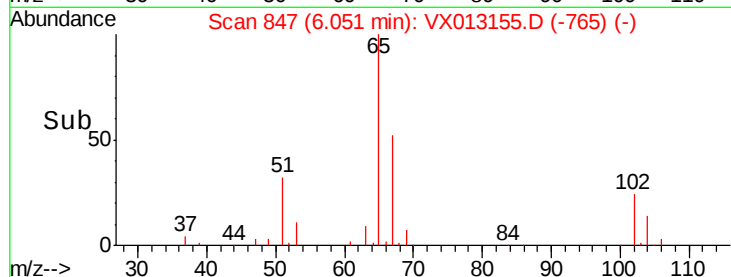
10000

5000

0

6.00 6.10 6.20

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013155.D

Acq: 21 Oct 2019 16:26

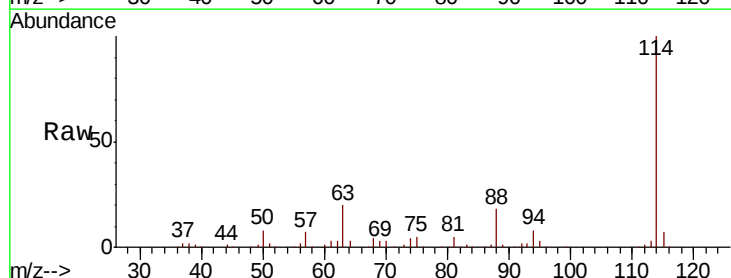
Tgt Ion: 114 Resp: 155470

Ion Ratio Lower Upper

114 100

63 20.1 16.1 24.1

88 17.5 13.7 20.5



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

6.85

80000

60000

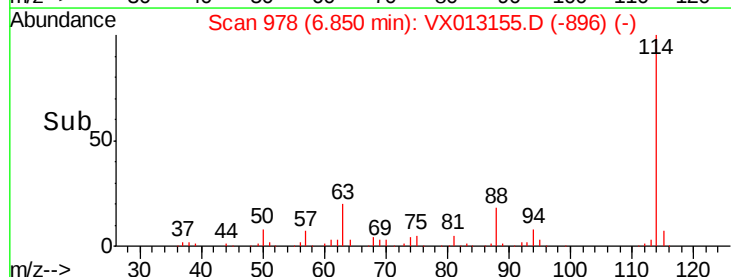
40000

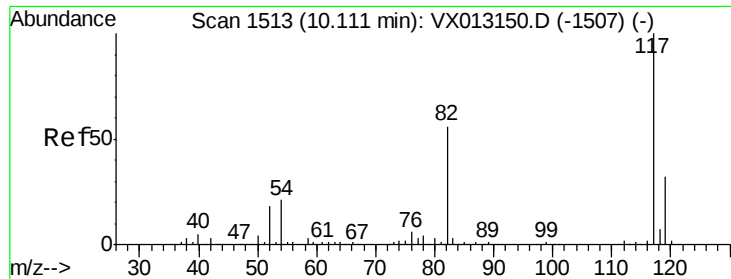
20000

0

6.75 6.80 6.85 6.90 6.95

Time-->

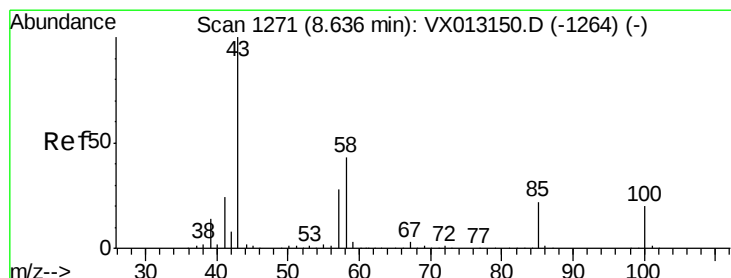
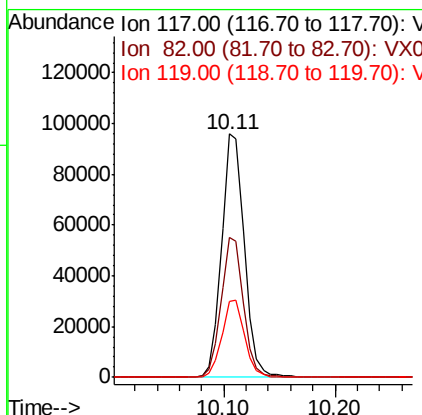
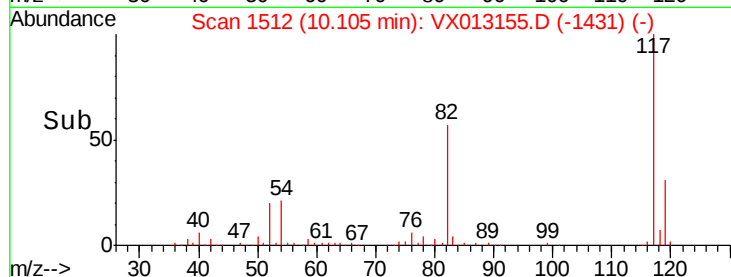
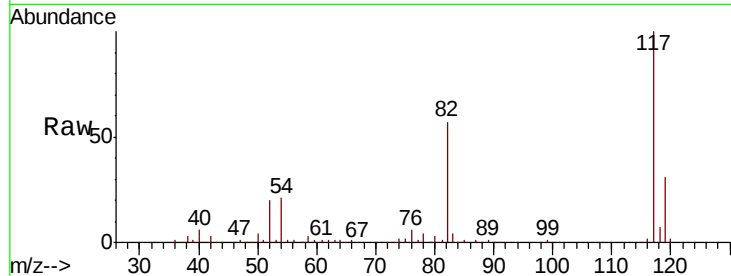




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX013155.D
Acq: 21 Oct 2019 16:26

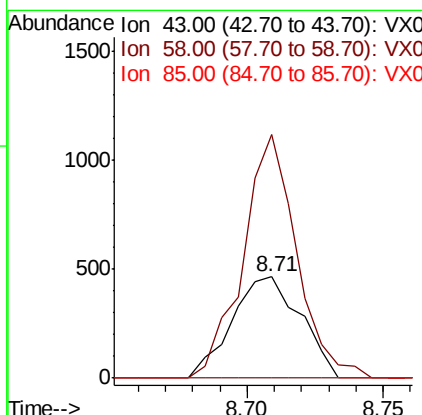
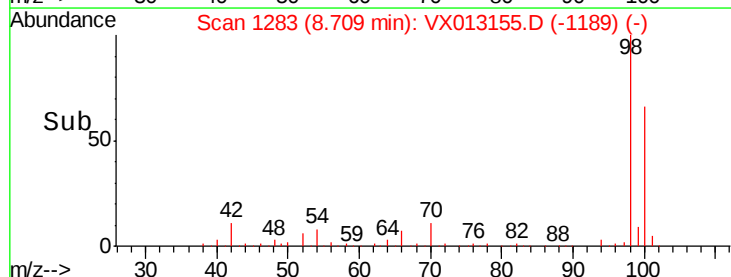
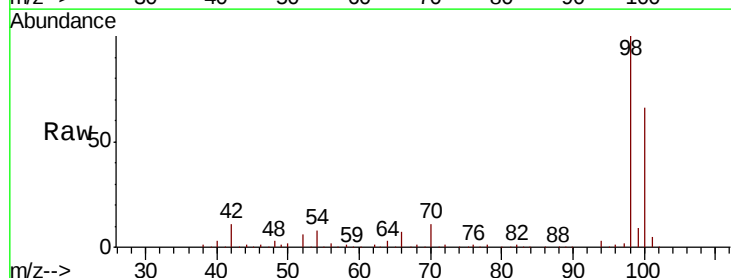
Instrument :
MSVOA_X
ClientSampleId :
VX1021WBL01

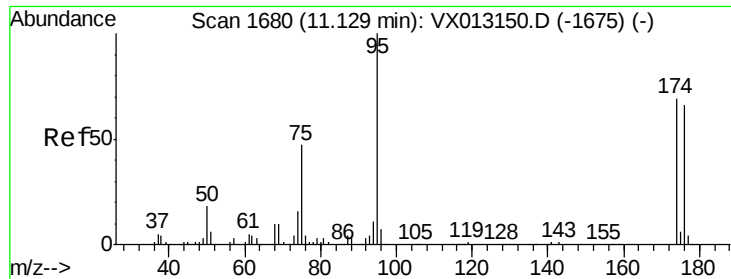
Tot Ion:117 Resp: 135497
Ion Ratio Lower Upper
117 100
82 56.3 46.0 69.0
119 31.7 25.4 38.0



#58
4-Methyl-2-Pentanone
Concen: 0.357 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.07 min
Lab File: VX013155.D
Acq: 21 Oct 2019 16:26

Tgt Ion: 43 Resp: 815
Ion Ratio Lower Upper
43 100
58 187.6 33.8 50.8#
85 0.0 16.8 25.2#

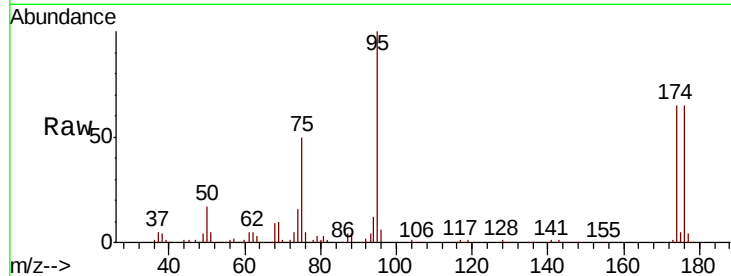




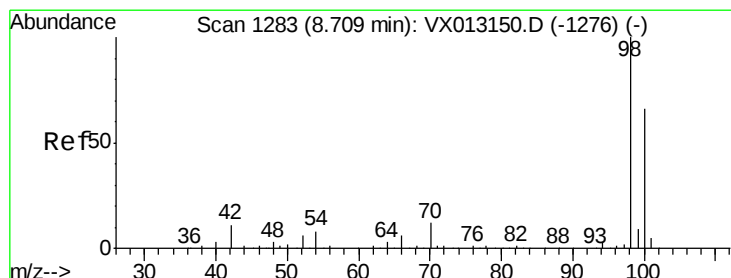
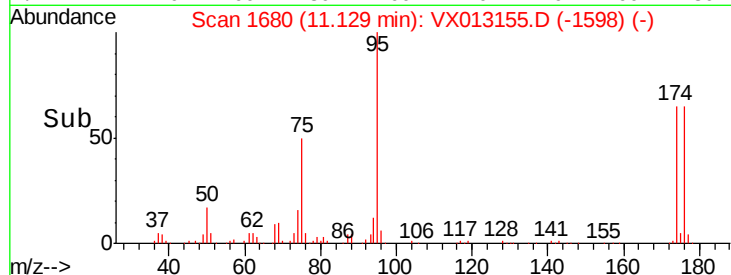
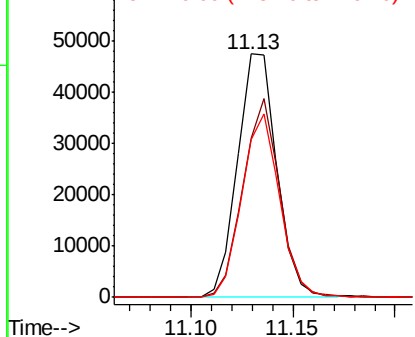
#60
4-Bromofluorobenzene
Concen: 27.007 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX013155.D
Acq: 21 Oct 2019 16:26

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBL01

Tot Ion: 95 Resp: 63721
Ion Ratio Lower Upper
95 100
174 76.4 60.0 90.0
176 72.7 58.5 87.7

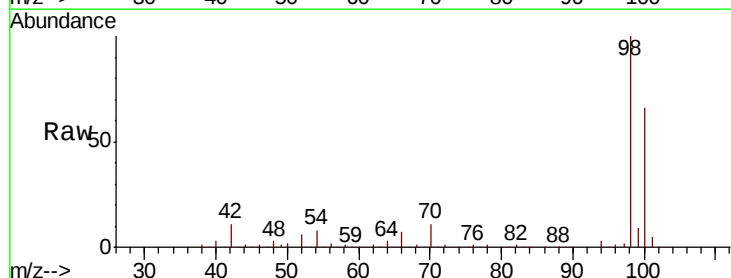


Abundance Ion 95.00 (94.70 to 95.70): VX0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

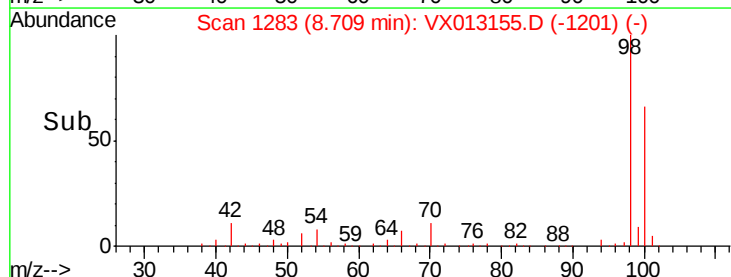
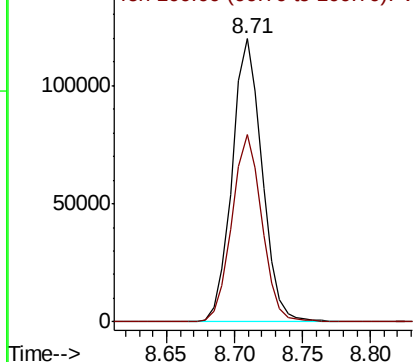


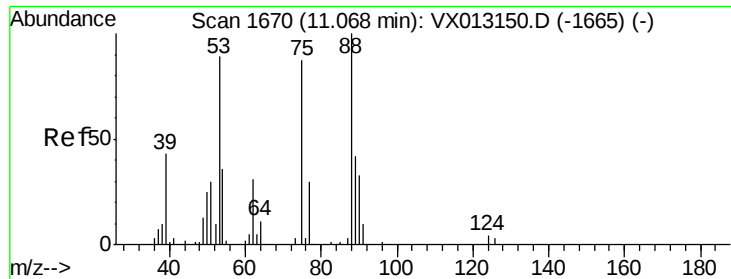
#63
Toluene-d8
Concen: 30.542 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013155.D
Acq: 21 Oct 2019 16:26

Tgt Ion: 98 Resp: 184063
Ion Ratio Lower Upper
98 100
100 66.4 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#77
t-1,4-Dichloro-2-butene
Concen: 35.810 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX013155.D
Acq: 21 Oct 2019 16:26

Instrument :
MSVOA_X
ClientSampleId :
VX1021WBL01

Tot Ion: 75 Resp: 31014
Ion Ratio Lower Upper
75 100
53 0.0 51.1 153.4#
89 0.0 24.1 72.4#

