

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102320\
 Data File : VX019088.D
 Acq On : 23 Oct 2020 19:52
 Operator : JC/SP
 Sample : L4457-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 NOTT-AVE-PR-2150

Quant Time: Oct 26 04:18:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Oct 26 03:21:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	39536	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	219343	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	200147	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	81460	30.93	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.10%
60) 4-Bromofluorobenzene	11.12	95	90492	30.12	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.40%
63) Toluene-d8	8.70	98	260321	29.46	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.20%

Target Compounds

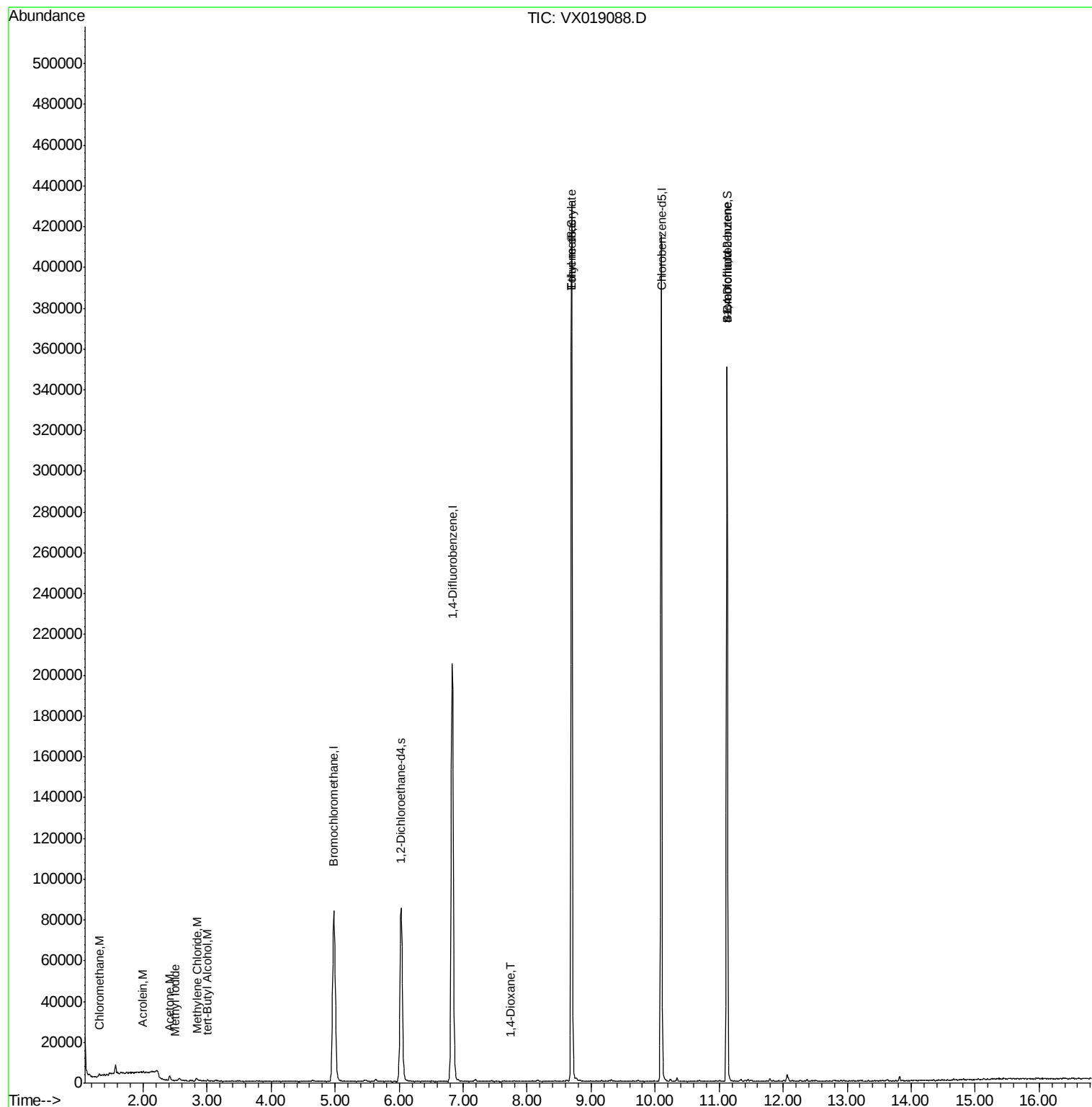
					Ovalue
3) Chloromethane	1.31	50	364	0.203	ug/l 89
11) Methyl Iodide	2.50	142	39	7.357	ug/l # 39
13) Acrolein	2.00	56	40	0.220	ug/l 100
15) Acetone	2.42	58	787	2.968	ug/l # 39
18) Methylene Chloride	2.84	84	587	0.259	ug/l # 82
23) tert-Butyl Alcohol	3.01	59	413	0.920	ug/l # 100
45) 1,4-Dioxane	7.74	88	46	1.011	ug/l # 1
51) Ethyl methacrylate	8.70	69	896	0.258	ug/l 81
56) Bromoform	11.12	173	658	0.356	ug/l # 1
77) t-1,4-Dichloro-2-butene	11.12	75	44017	37.852	ug/l # 16

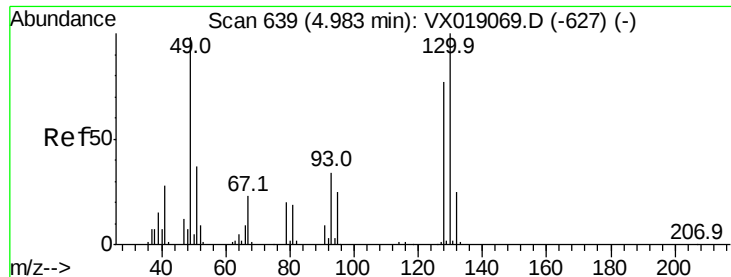
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X102320W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Oct 26 03:21:29 2020
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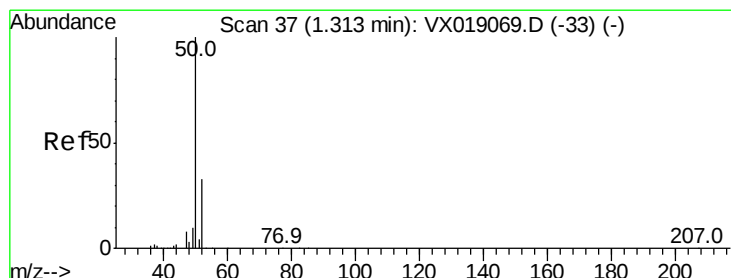
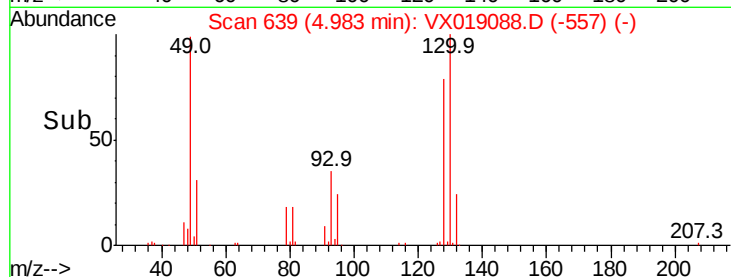
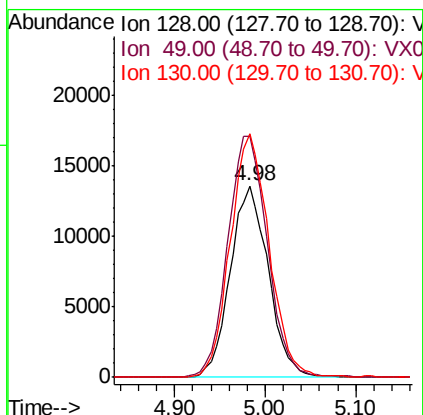
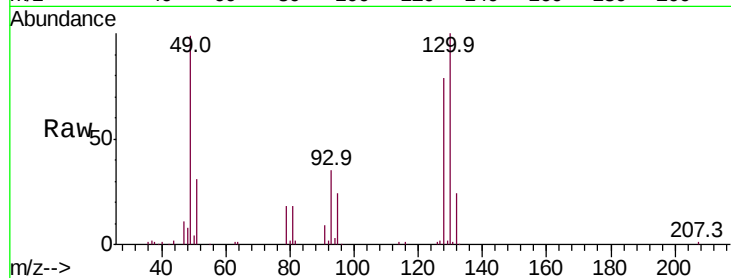




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.98 min Scan# 639
Delta R.T. 0.00 min
Lab File: VX019088.D
Acq: 23 Oct 2020 19:52

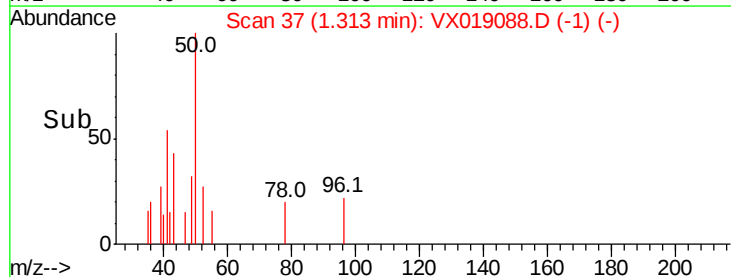
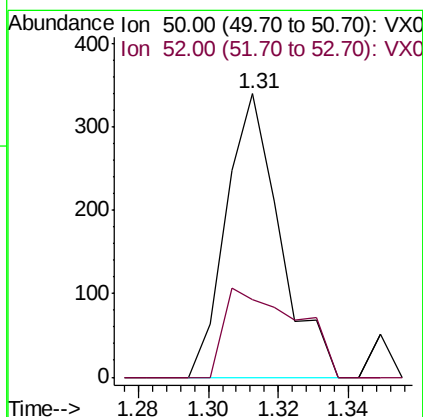
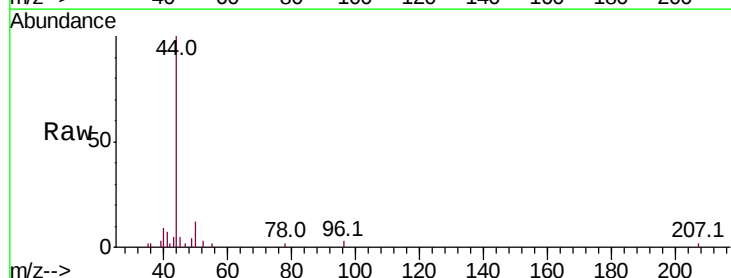
Instrument :
MSVOA_X
ClientSampleId :
NOTT-AVE-PR-2150

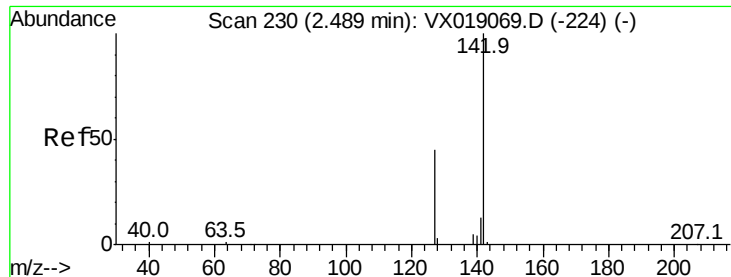
Tot Ion:128 Resp: 39536
Ion Ratio Lower Upper
128 100
49 131.0 0.0 318.8
130 129.5 0.0 321.8



#3
Chloromethane
Concen: 0.203 ug/l
RT: 1.31 min Scan# 37
Delta R.T. 0.00 min
Lab File: VX019088.D
Acq: 23 Oct 2020 19:52

Tgt Ion: 50 Resp: 364
Ion Ratio Lower Upper
50 100
52 27.1 26.7 40.1

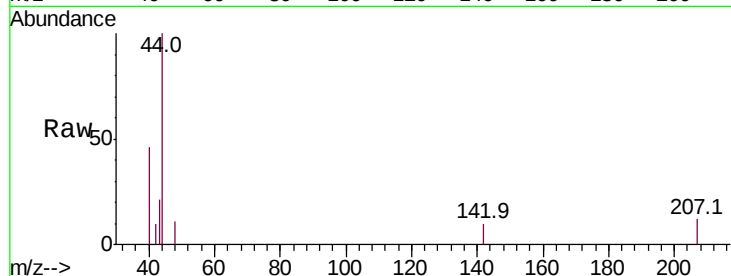




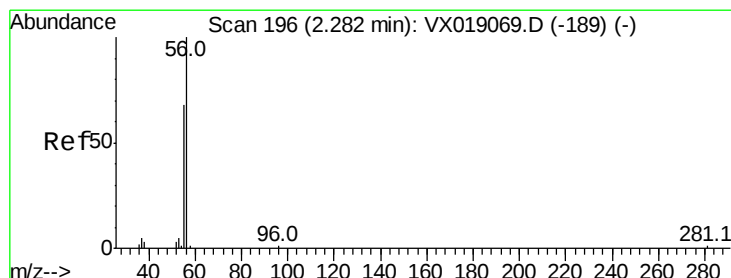
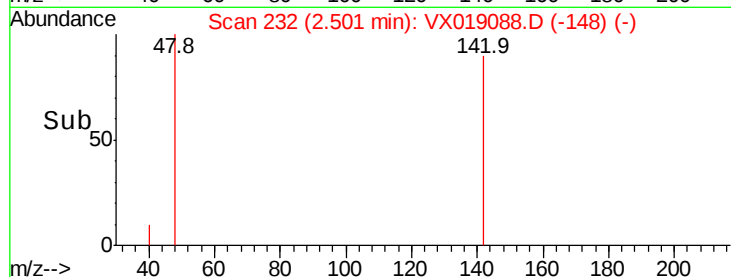
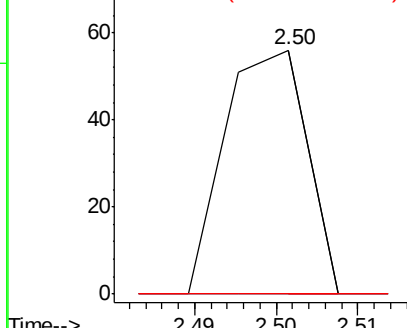
#11
Methyl Iodide
Concen: 7.357 ug/l
RT: 2.50 min Scan# 232
Delta R.T. 0.01 min
Lab File: VX019088.D
Acq: 23 Oct 2020 19:52

Instrument :
MSVOA_X
ClientSampleId :
NOTT-AVE-PR-2150

Tot Ion: 142 Resp: 39
Ion Ratio Lower Upper
142 100
127 0.0 22.6 67.7#
141 0.0 6.3 19.1#

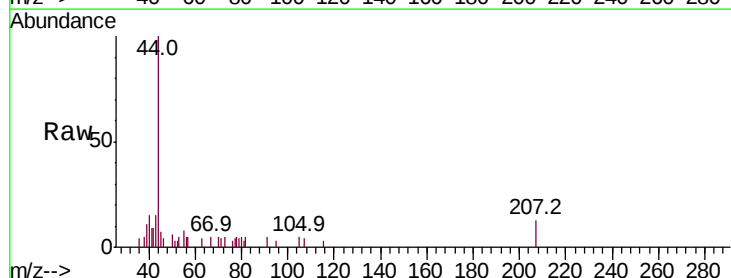


Abundance Ion 142.00 (141.70 to 142.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 141.00 (140.70 to 141.70): V

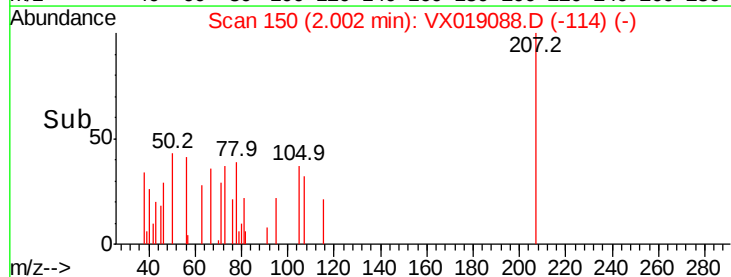
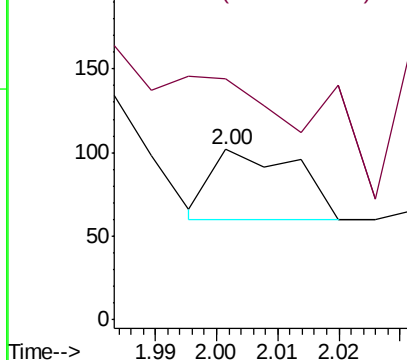


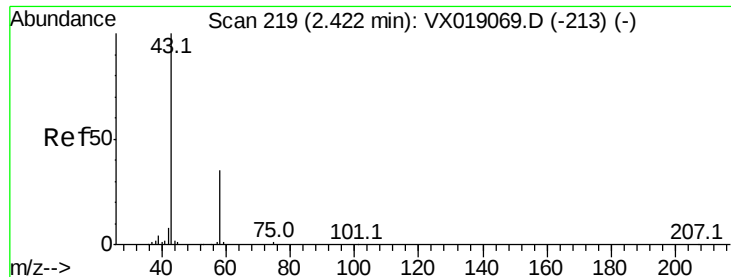
#13
Acrolein
Concen: 0.220 ug/l
RT: 2.00 min Scan# 150
Delta R.T. -0.28 min
Lab File: VX019088.D
Acq: 23 Oct 2020 19:52

Tgt Ion: 56 Resp: 40
Ion Ratio Lower Upper
56 100
55 72.5 58.2 87.2



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#15

Acetone

Concen: 2.968 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019088.D

Acq: 23 Oct 2020 19:52

Instrument :

MSVOA_X

ClientSampleId :

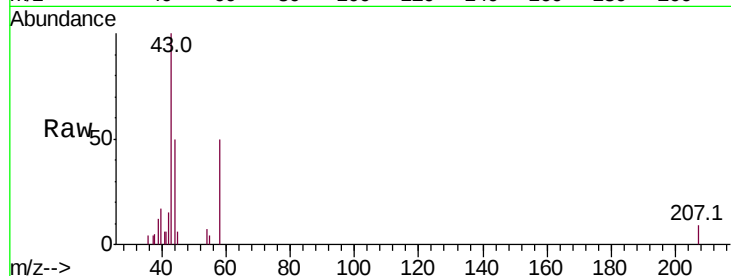
NOTT-AVE-PR-2150

Tot Ion: 58 Resp: 787

Ion Ratio Lower Upper

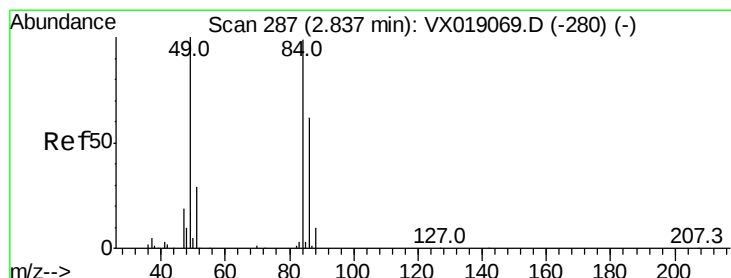
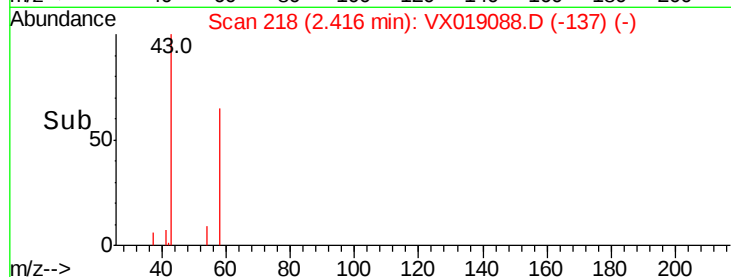
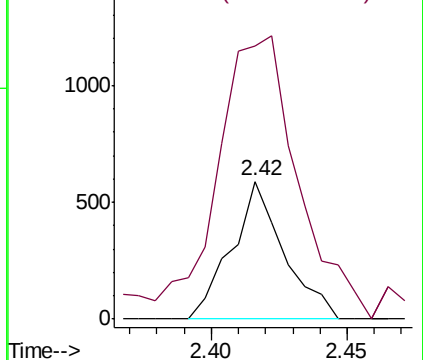
58 100

43 168.1 226.7 340.1#



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#18

Methylene Chloride

Concen: 0.259 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.00 min

Lab File: VX019088.D

Acq: 23 Oct 2020 19:52

Tgt Ion: 84 Resp: 587

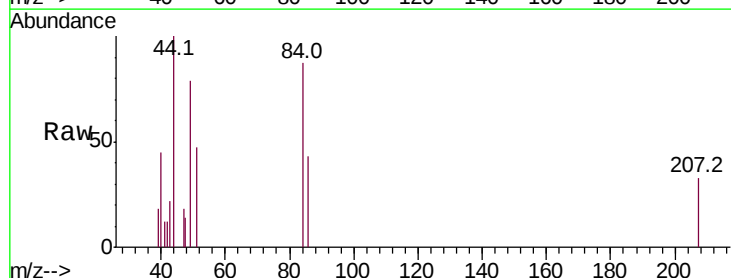
Ion Ratio Lower Upper

84 100

49 90.8 80.9 121.3

51 53.5 23.8 35.6#

86 49.3 50.6 75.8#

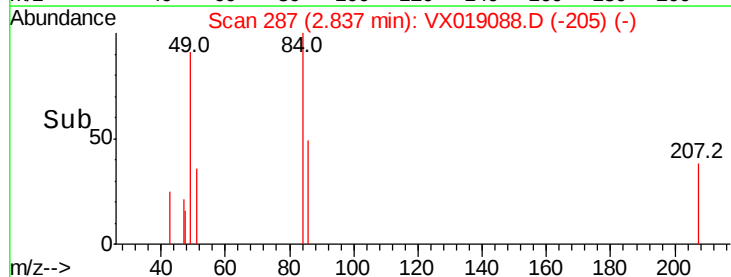
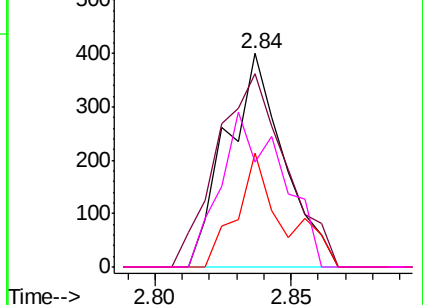


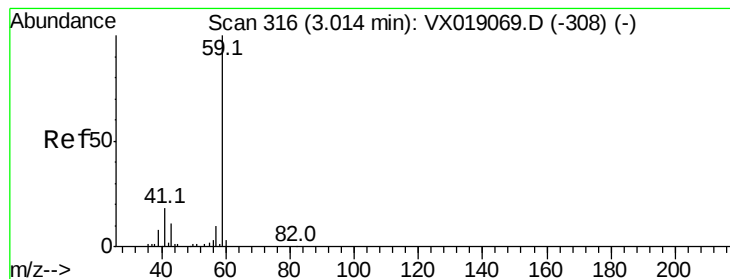
Abundance Ion 84.00 (83.70 to 84.70): VX0

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: 0.920 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX019088.D

Acq: 23 Oct 2020 19:52

Instrument :

MSVOA_X

ClientSampleId :

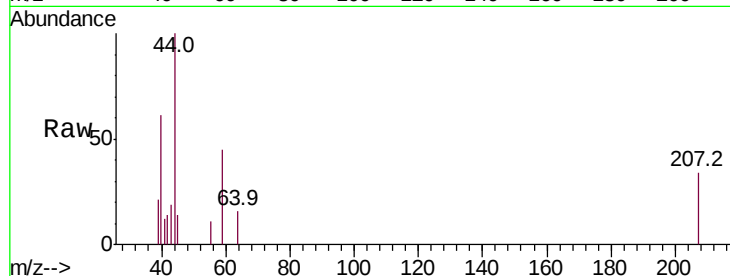
NOTT-AVE-PR-2150

Tot Ion: 59 Resp: 413

Ion Ratio Lower Upper

59 100

52 0.0 0.2 0.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

3.01

250

200

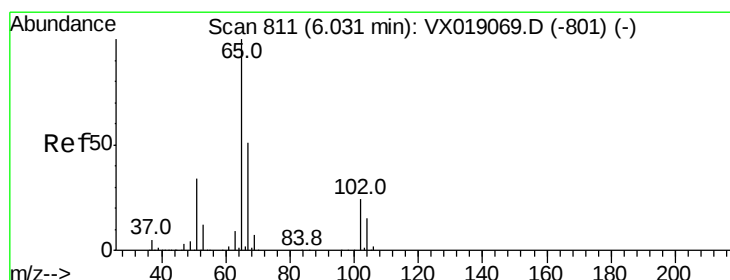
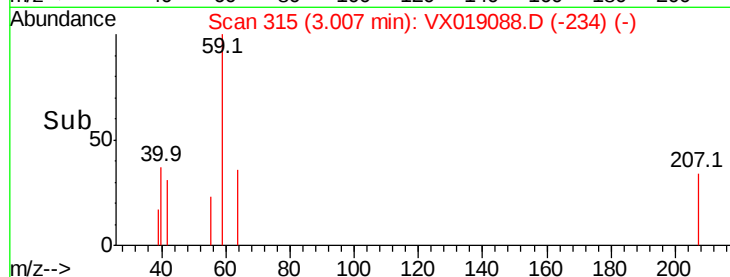
150

100

50

0

Time--> 2.95 3.00 3.05



#27

1,2-Dichloroethane-d4

Concen: 30.934 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX019088.D

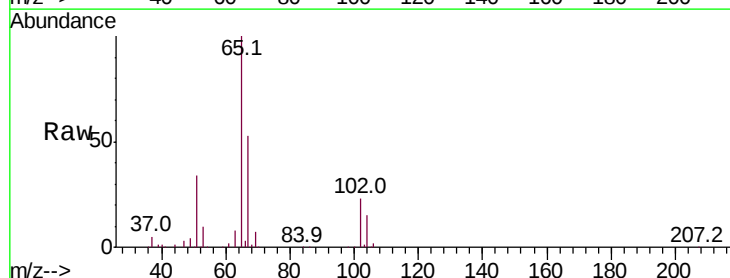
Acq: 23 Oct 2020 19:52

Tgt Ion: 65 Resp: 81460

Ion Ratio Lower Upper

65 100

67 51.7 42.0 63.0



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

6.03

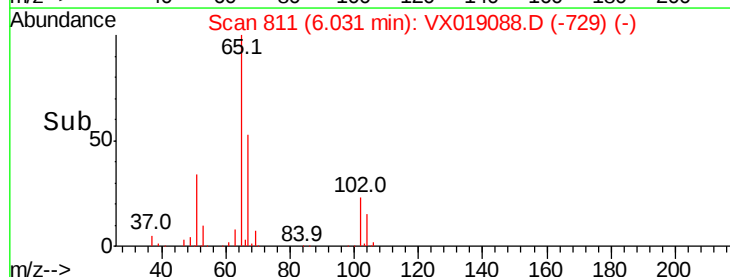
30000

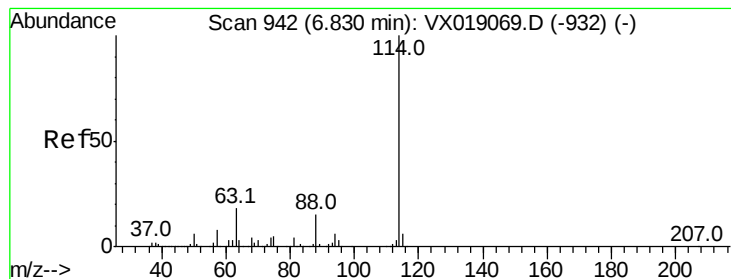
20000

10000

0

Time--> 5.90 6.00 6.10





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX019088.D

Acq: 23 Oct 2020 19:52

Instrument :

MSVOA_X

ClientSampleId :

NOTT-AVE-PR-2150

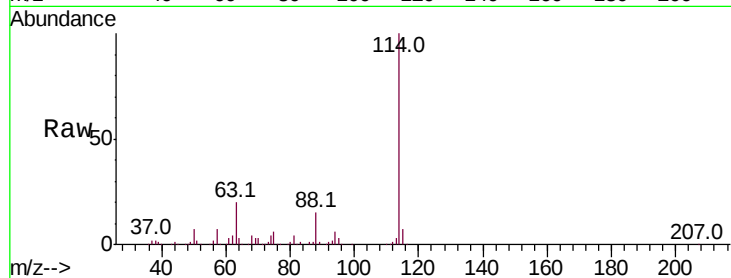
Tot Ion:114 Resp: 219343

Ion Ratio Lower Upper

114 100

63 18.9 14.6 21.8

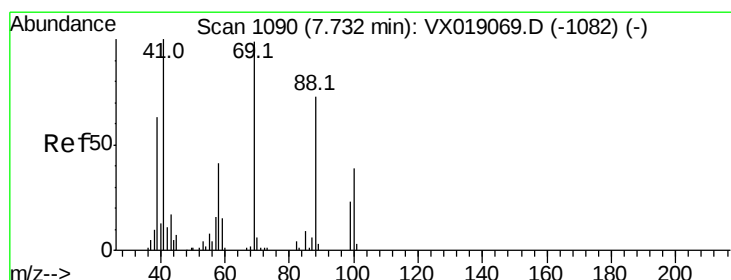
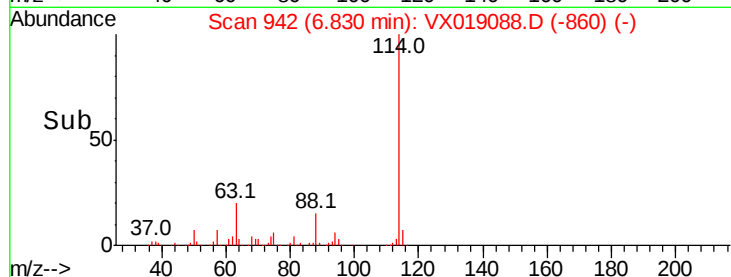
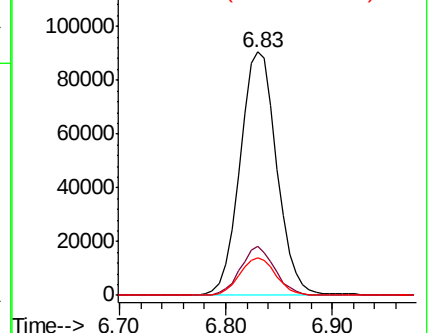
88 15.3 12.2 18.2



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



#45

1,4-Dioxane

Concen: 1.011 ug/l

RT: 7.74 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VX019088.D

Acq: 23 Oct 2020 19:52

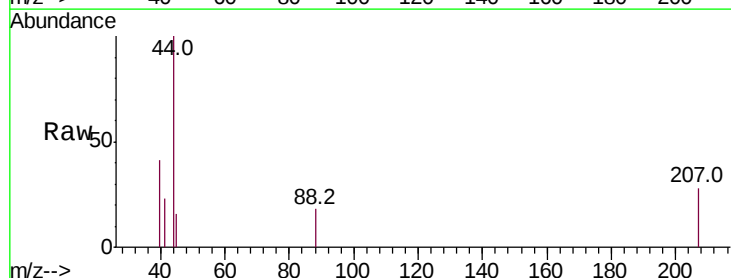
Tgt Ion: 88 Resp: 46

Ion Ratio Lower Upper

88 100

43 213.0 20.5 30.7#

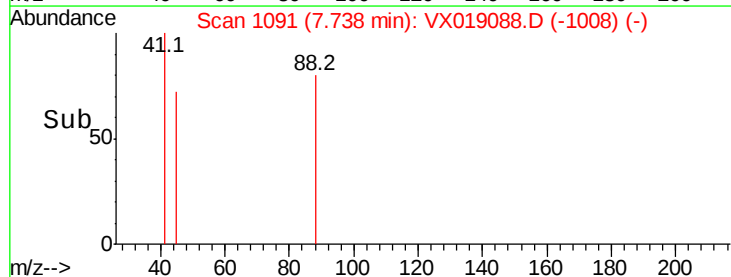
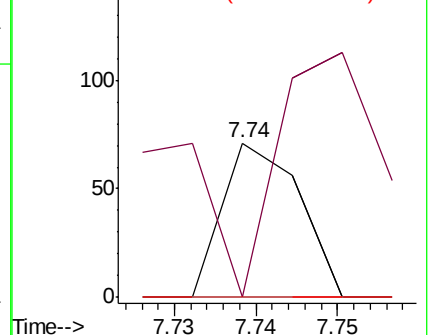
58 0.0 47.4 71.2#

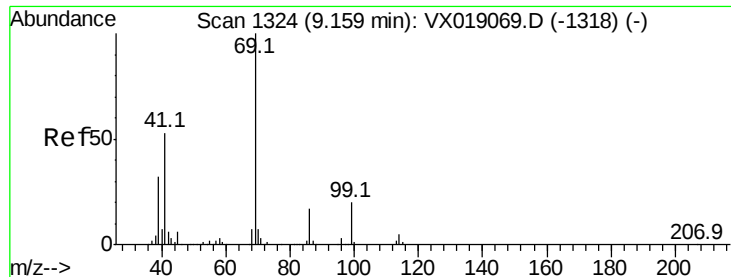


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#51

Ethyl methacrylate

Concen: 0.258 ug/l

RT: 8.70 min Scan# 1249

Delta R.T. -0.46 min

Lab File: VX019088.D

Acq: 23 Oct 2020 19:52

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ClientSampleId :

NOTT-AVE-PR-2150

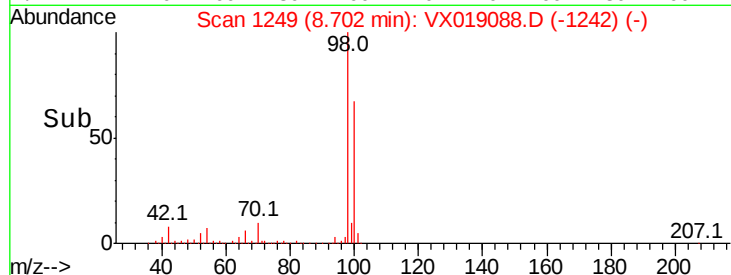
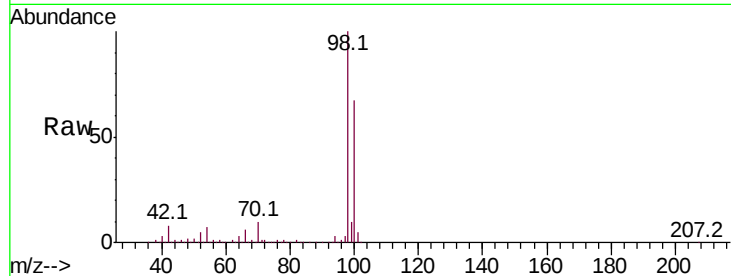
Tot Ion: 69 Resp: 896

Ion Ratio Lower Upper

69 100

41 63.3 26.5 79.4

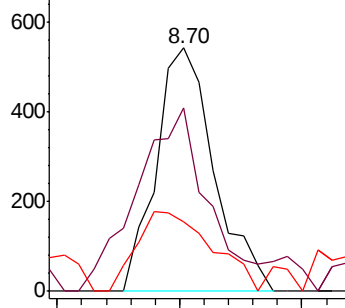
39 18.3 16.2 48.6



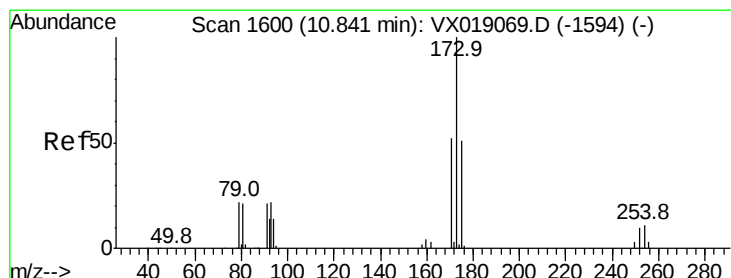
Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



Time-->



#56

Bromoform

Concen: 0.356 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.28 min

Lab File: VX019088.D

Acq: 23 Oct 2020 19:52

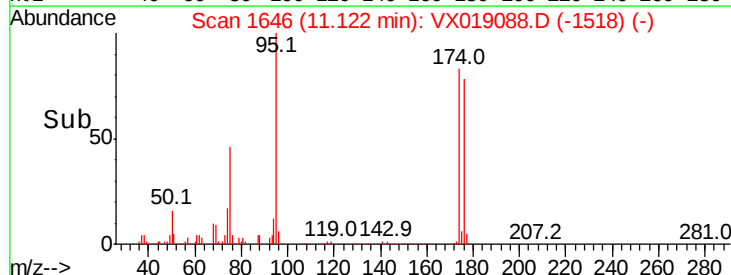
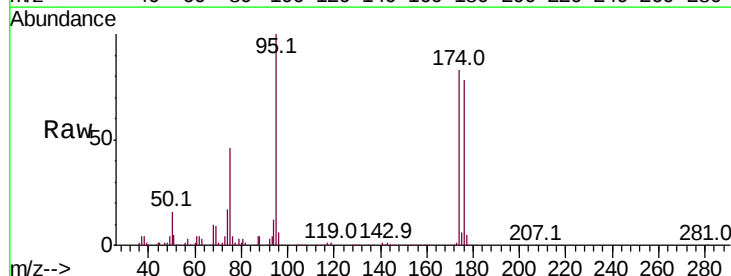
Tgt Ion: 173 Resp: 658

Ion Ratio Lower Upper

173 100

175 840.6 39.6 59.4#

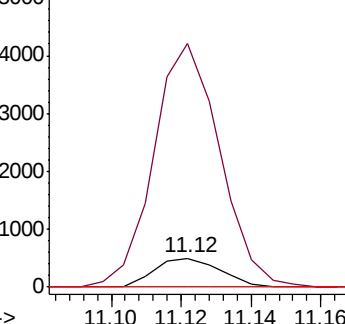
254 0.0 8.6 13.0#



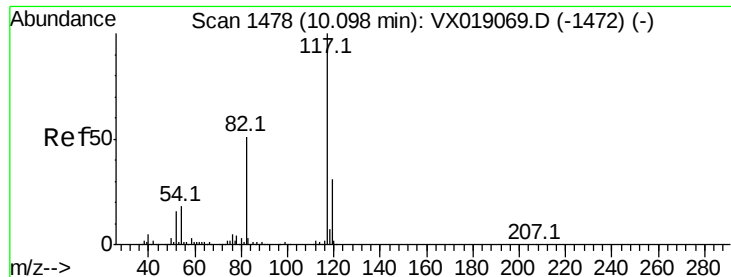
Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



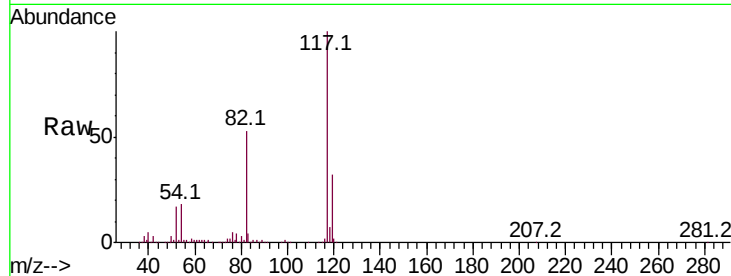
Time-->



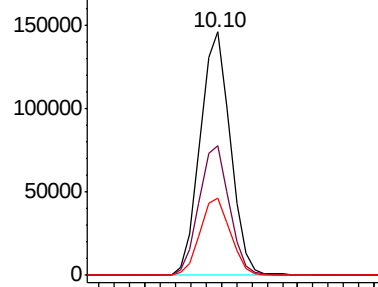
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX019088.D
Acq: 23 Oct 2020 19:52

Instrument :
MSVOA_X
ClientSampleId :
NOTT-AVE-PR-2150

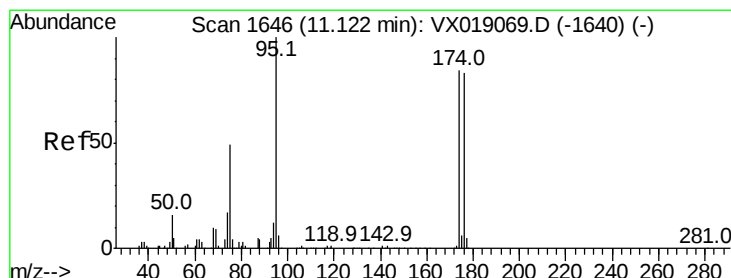
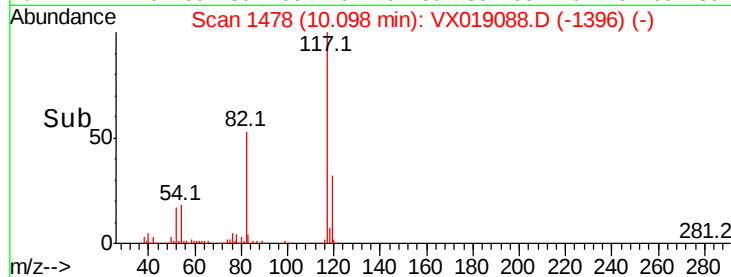
Tot Ion:117 Resp: 200147
Ion Ratio Lower Upper
117 100
82 53.8 42.5 63.7
119 32.1 25.6 38.4



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 119.00 (118.70 to 119.70): V

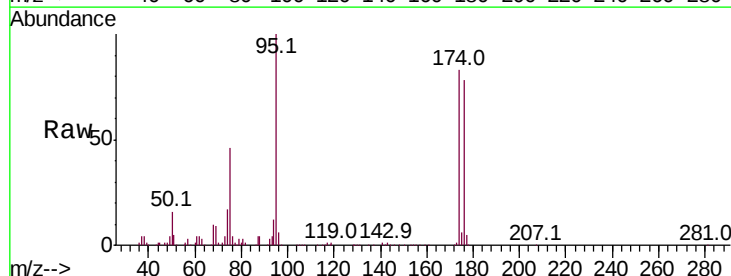


Time-->

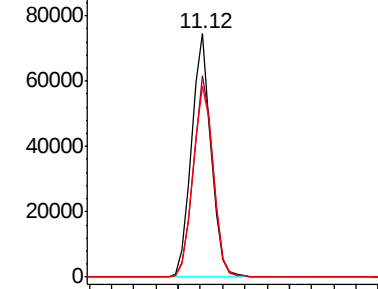


#60
4-Bromofluorobenzene
Concen: 30.123 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX019088.D
Acq: 23 Oct 2020 19:52

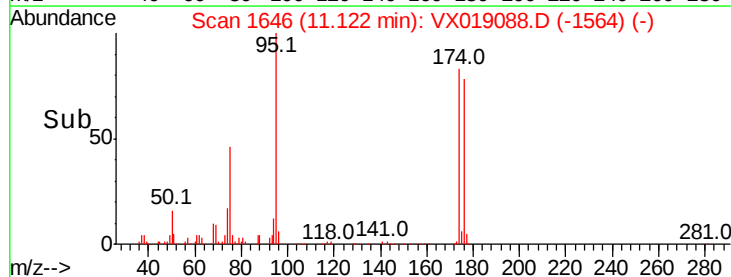
Tgt Ion: 95 Resp: 90492
Ion Ratio Lower Upper
95 100
174 83.0 66.3 99.5
176 81.7 65.5 98.3

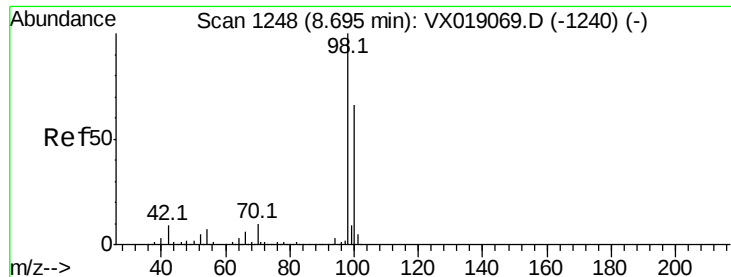


Abundance Ion 95.00 (94.70 to 95.70): VX0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V



Time-->





#63

Toluene-d8

Concen: 29.459 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019088.D

Acq: 23 Oct 2020 19:52

Instrument :

MSVOA_X

ClientSampleId :

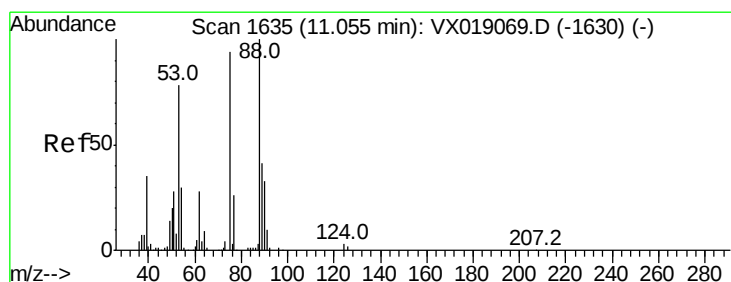
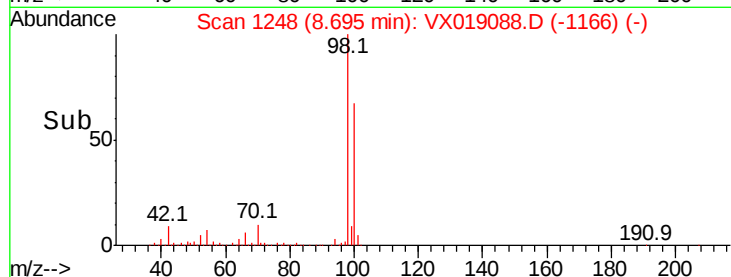
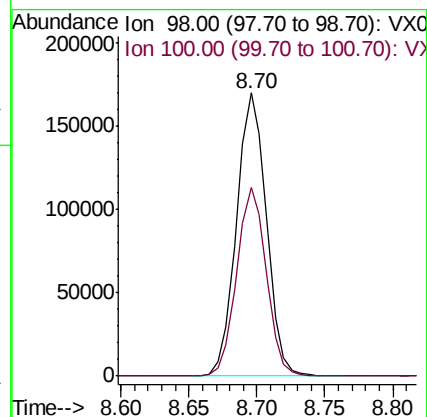
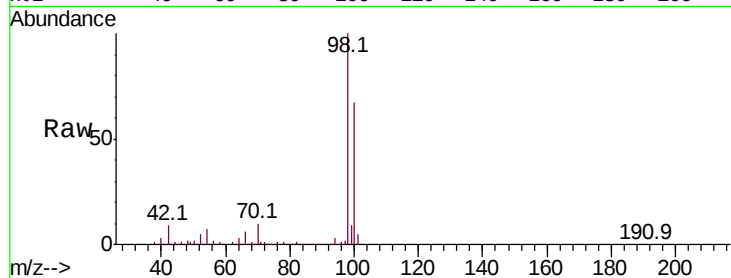
NOTT-AVE-PR-2150

Tot Ion: 98 Resp: 260321

Ion Ratio Lower Upper

98 100

100 65.9 52.2 78.4



#77

t-1,4-Dichloro-2-butene

Concen: 37.852 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019088.D

Acq: 23 Oct 2020 19:52

Tgt Ion: 75 Resp: 44017

Ion Ratio Lower Upper

75 100

53 0.0 41.6 124.8#

89 0.0 21.8 65.3#

