

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102320\
 Data File : VX019084.D
 Acq On : 23 Oct 2020 18:23
 Operator : JC/SP
 Sample : L4473-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-019-IDWGW-20201019

Quant Time: Oct 26 04:17:29 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	40753	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	227586	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	201198	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.03	65	83265	30.67	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.23%
60) 4-Bromofluorobenzene	11.12	95	91661	30.35	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	101.17%
63) Toluene-d8	8.70	98	271042	30.51	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.70%

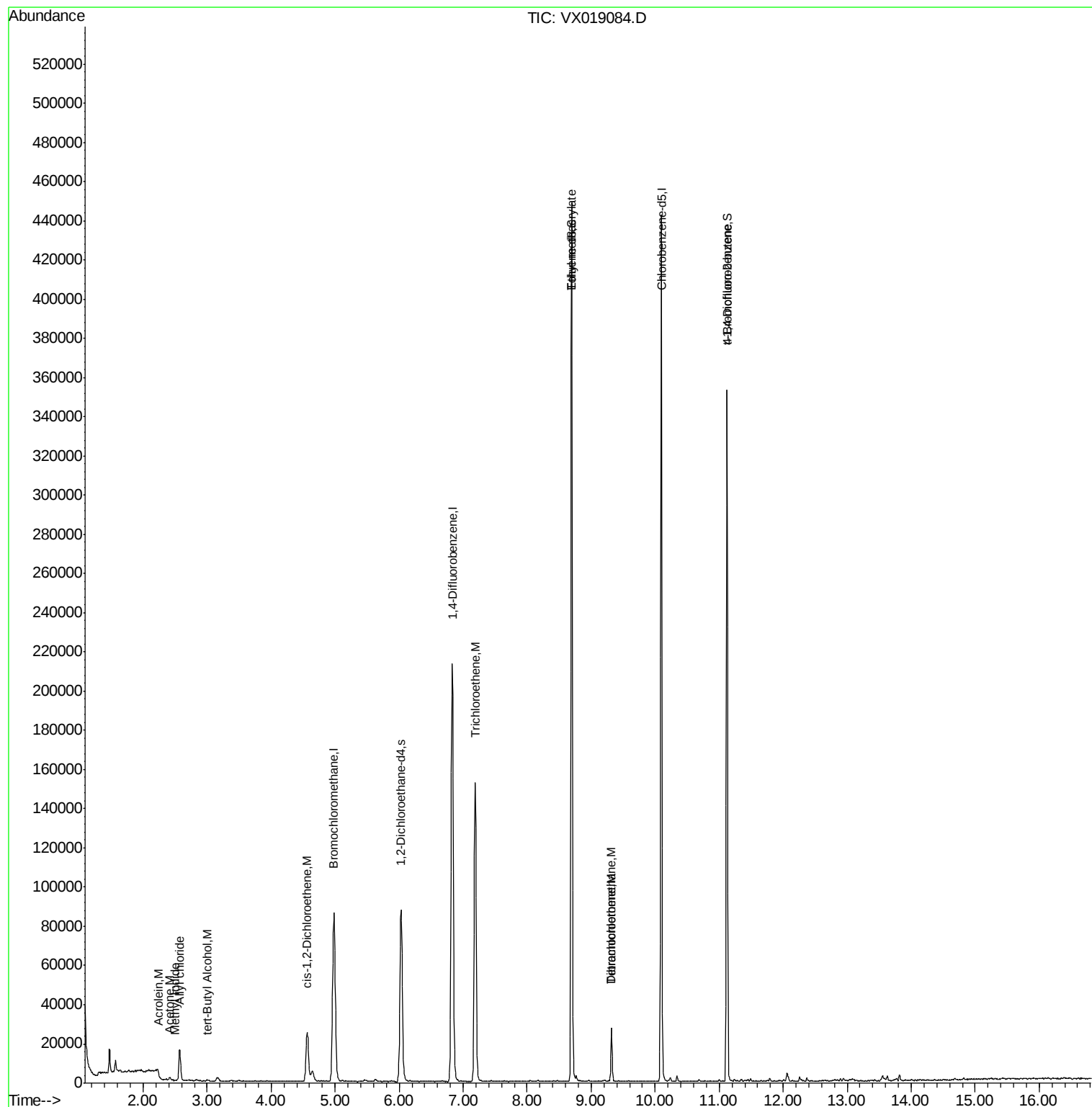
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
11) Methyl Iodide	2.50	142	183	7.410	ug/l #	90
13) Acrolein	2.24	56	143	0.765	ug/l	89
15) Acetone	2.42	58	576	2.107	ug/l #	63
17) Allyl chloride	2.57	41	1400	0.546	ug/l	72
22) cis-1,2-Dichloroethene	4.56	96	17192	6.194	ug/l	89
23) tert-Butyl Alcohol	3.00	59	532	1.150	ug/l #	88
37) Trichloroethene	7.19	130	60858	22.413	ug/l	98
51) Ethyl methacrylate	8.70	69	856	0.238	ug/l #	68
53) Dibromochloromethane	9.32	129	4951	1.804	ug/l #	11
61) Tetrachloroethene	9.32	164	5059	2.119	ug/l	90
77) t-1,4-Dichloro-2-butene	11.12	75	45316	38.766	ug/l #	16

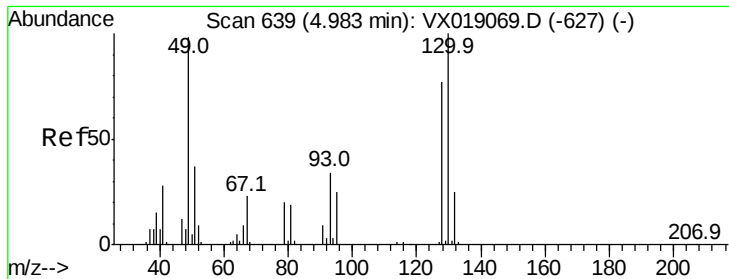
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX102320\
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TT-019-IDWGW-20201019

Quant Time: Oct 26 04:17:29 2020
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
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 638

Delta R.T. -0.01 min

Lab File: VX019084.D

Acq: 23 Oct 2020 18:23

Instrument :

MSVOA_X

ClientSampleId :

TT-019-IDW/GW-20201019

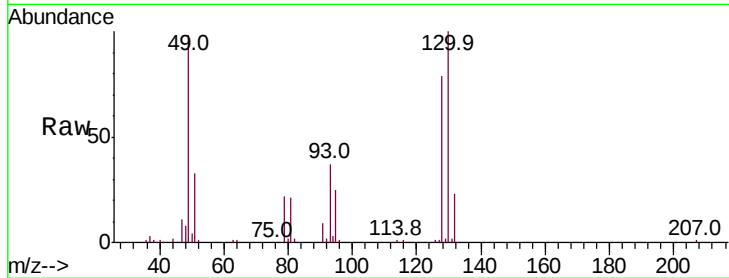
Tot Ion:128 Resp: 40753

Ion Ratio Lower Upper

128 100

49 128.2 0.0 318.8

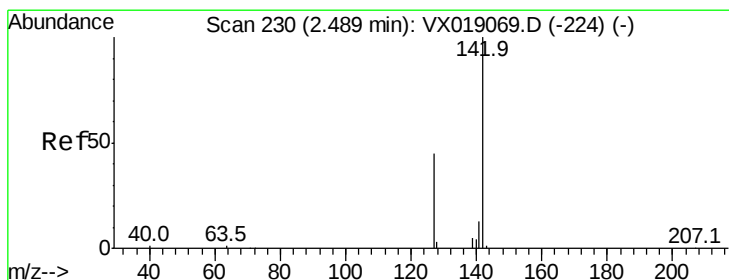
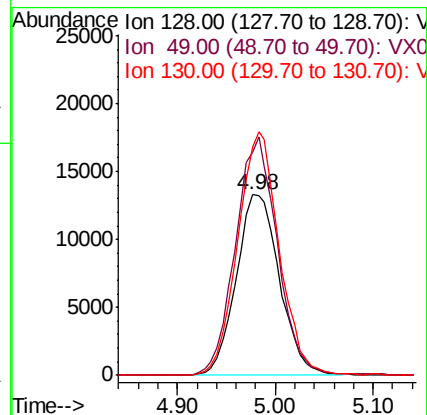
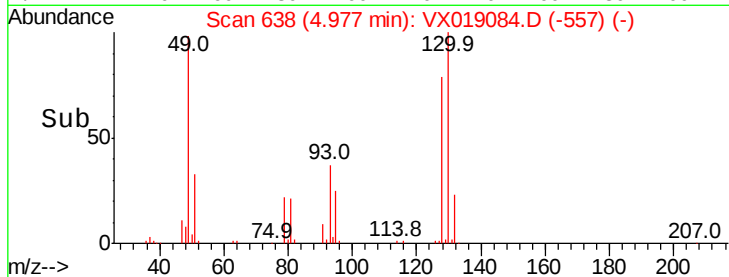
130 129.1 0.0 321.8



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



#11

Methyl Iodide

Concen: 7.410 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX019084.D

Acq: 23 Oct 2020 18:23

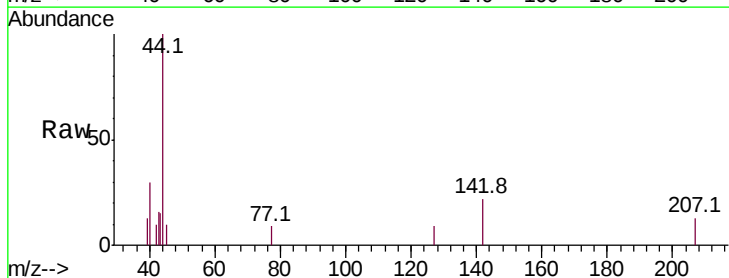
Tgt Ion:142 Resp: 183

Ion Ratio Lower Upper

142 100

127 42.6 22.6 67.7

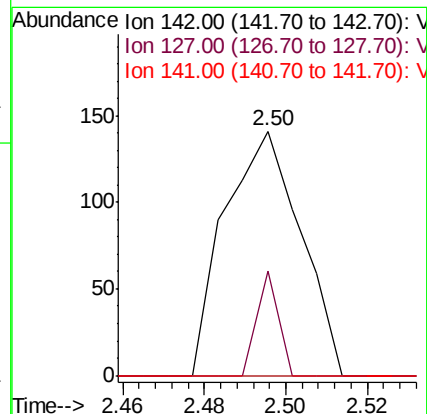
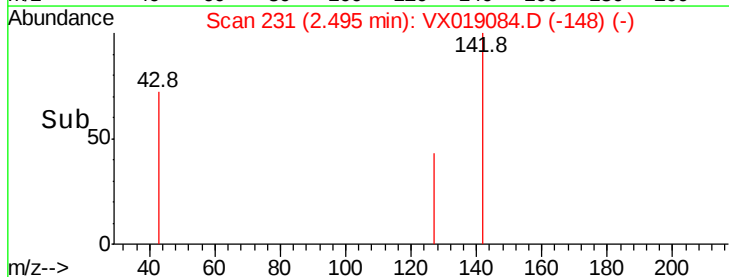
141 0.0 6.3 19.1#

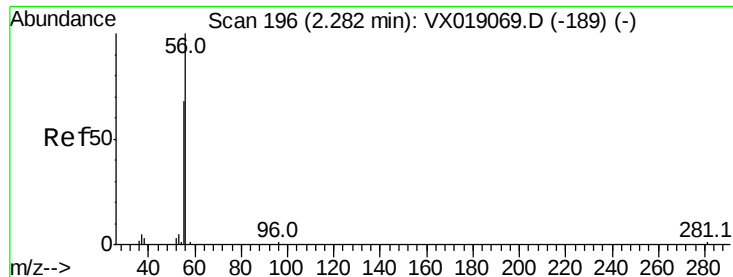


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V





#13

Acrolein

Concen: 0.765 ug/l

RT: 2.24 min Scan# 189

Delta R.T. -0.04 min

Lab File: VX019084.D

Acq: 23 Oct 2020 18:23

Instrument :

MSVOA_X

ClientSampleId :

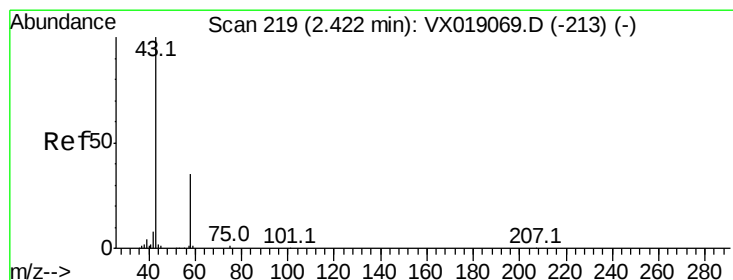
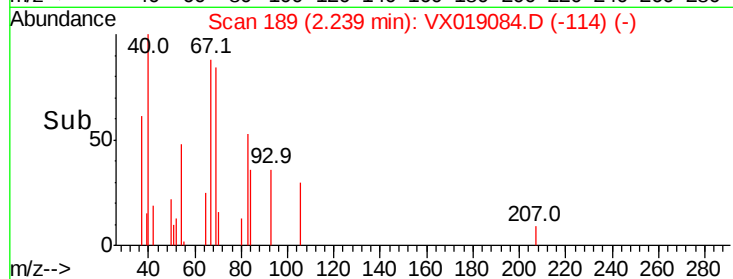
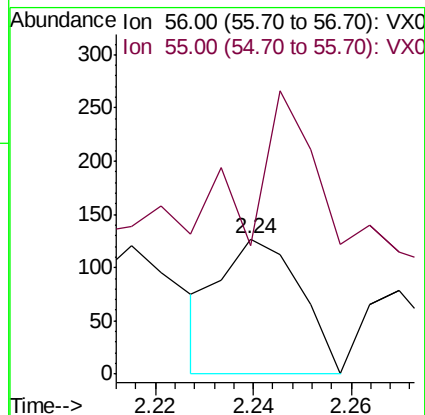
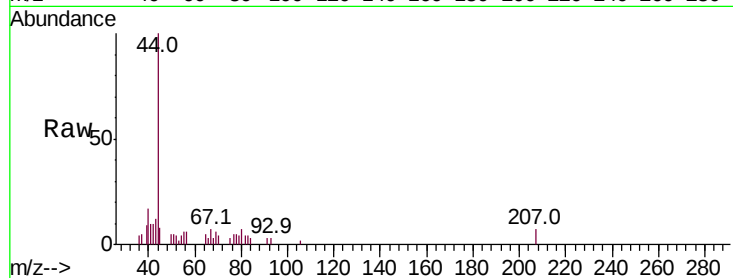
TT-019-IDWGW-20201019

Tot Ion: 56 Resp: 143

Ion Ratio Lower Upper

56 100

55 63.6 58.2 87.2



#15

Acetone

Concen: 2.107 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX019084.D

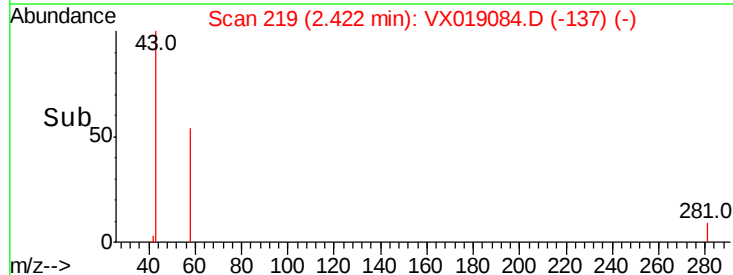
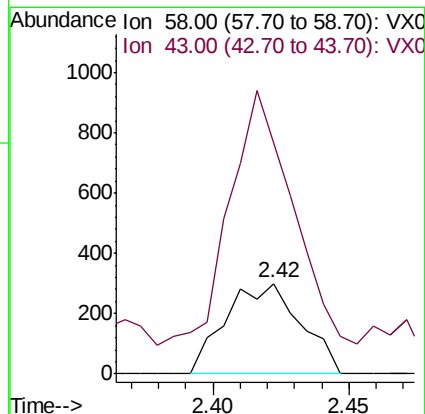
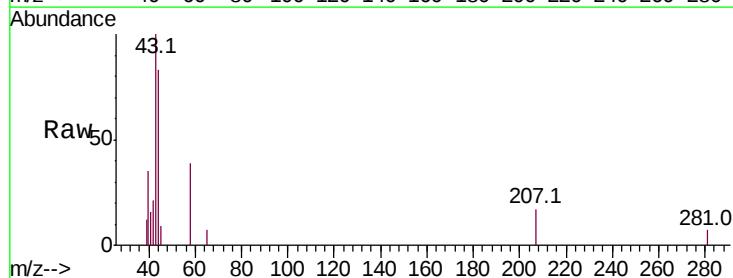
Acq: 23 Oct 2020 18:23

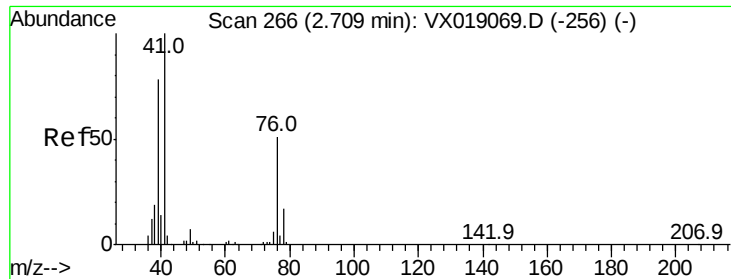
Tgt Ion: 58 Resp: 576

Ion Ratio Lower Upper

58 100

43 213.0 226.7 340.1#

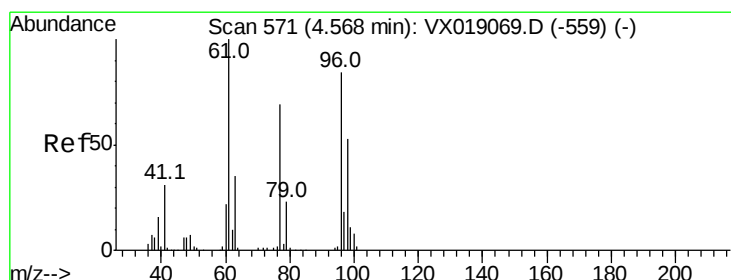
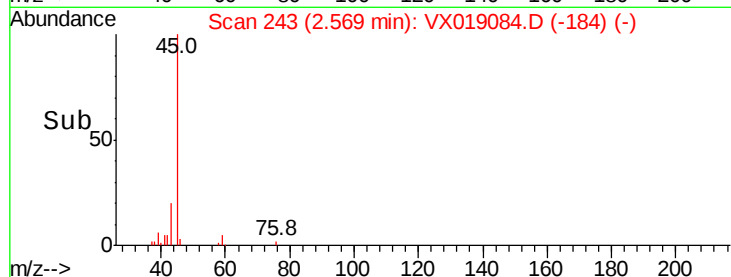
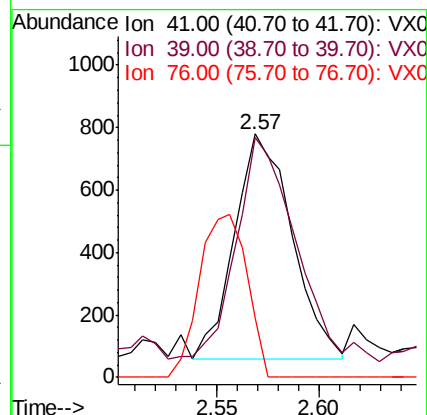
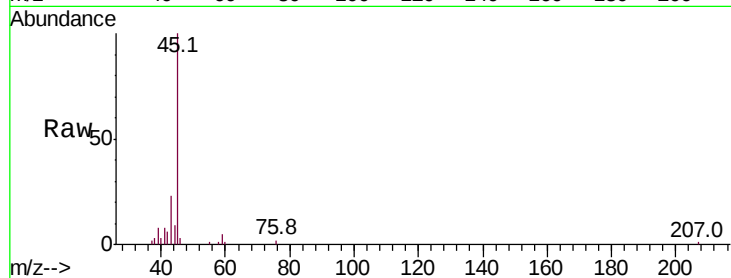




#17
Allvl chloride
Concen: 0.546 ug/l
RT: 2.57 min Scan# 243
Delta R.T. -0.14 min
Lab File: VX019084.D
Acq: 23 Oct 2020 18:23

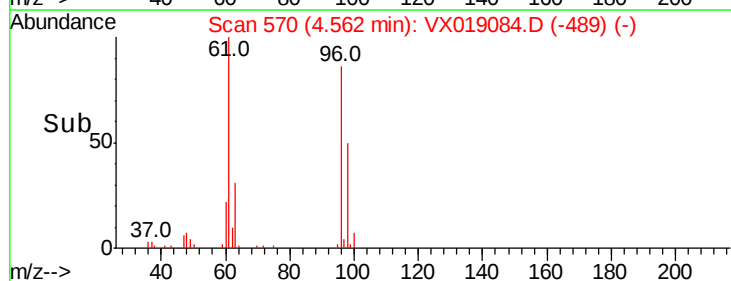
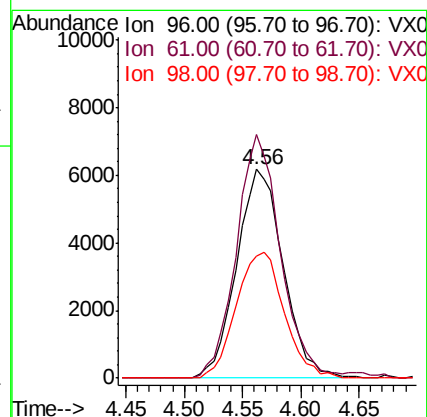
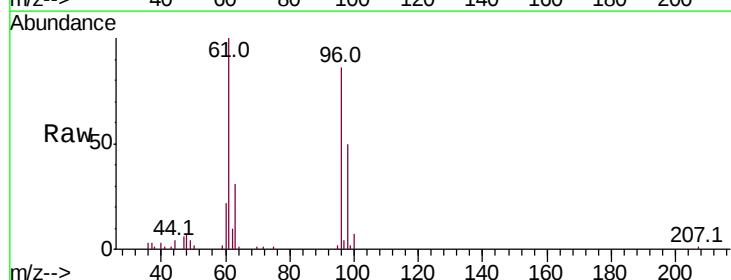
Instrument :
MSVOA_X
ClientSampleId :
TT-019-IDWGW-20201019

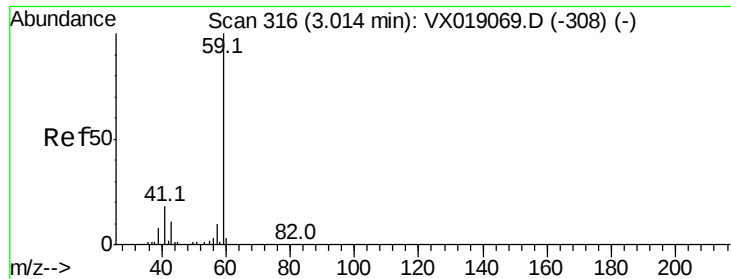
Tot Ion: 41 Resp: 1400
Ion Ratio Lower Upper
41 100
39 97.5 38.8 116.3
76 26.7 25.8 77.4



#22
cis-1,2-Dichloroethene
Concen: 6.194 ug/l
RT: 4.56 min Scan# 570
Delta R.T. -0.01 min
Lab File: VX019084.D
Acq: 23 Oct 2020 18:23

Tgt Ion: 96 Resp: 17192
Ion Ratio Lower Upper
96 100
61 110.6 101.9 152.9
98 62.2 51.3 76.9





#23

tert-Butyl Alcohol

Concen: 1.150 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX019084.D

Acq: 23 Oct 2020 18:23

Instrument :

MSVOA_X

ClientSampleId :

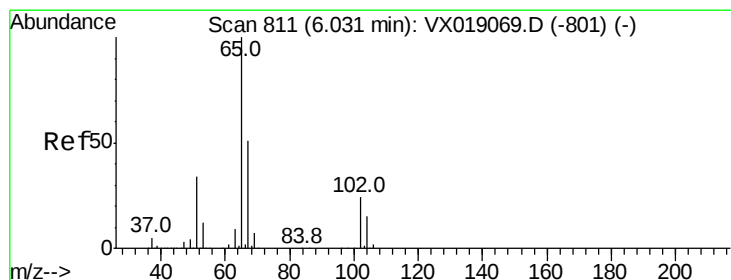
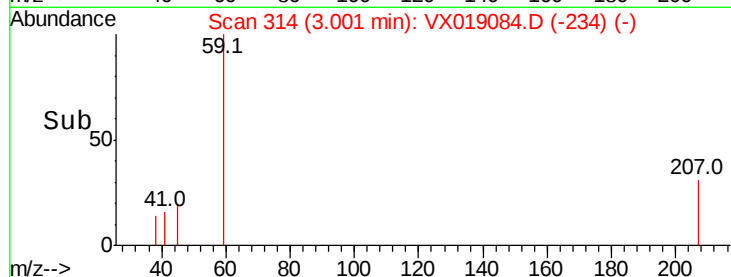
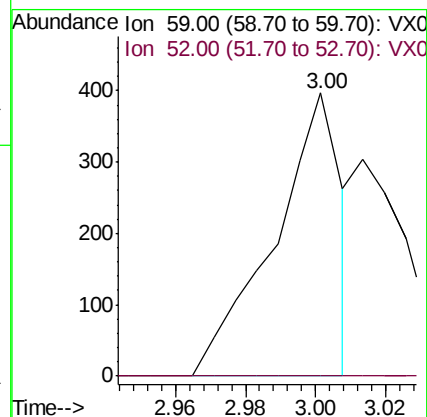
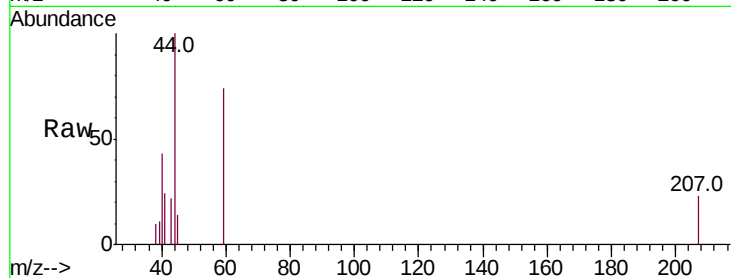
TT-019-IDW/GW-20201019

Tot Ion: 59 Resp: 532

Ion Ratio Lower Upper

59 100

52 11.5 0.2 0.4#



#27

1,2-Dichloroethane-d4

Concen: 30.675 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX019084.D

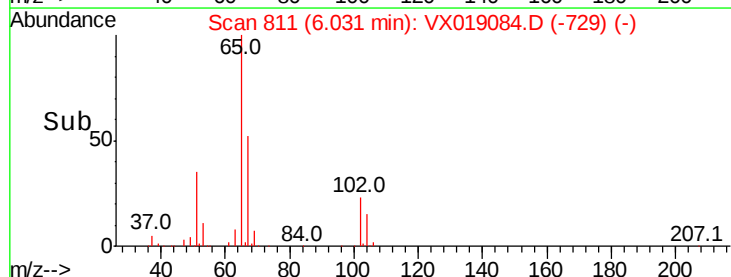
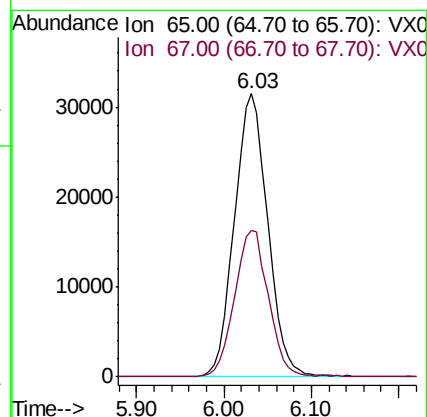
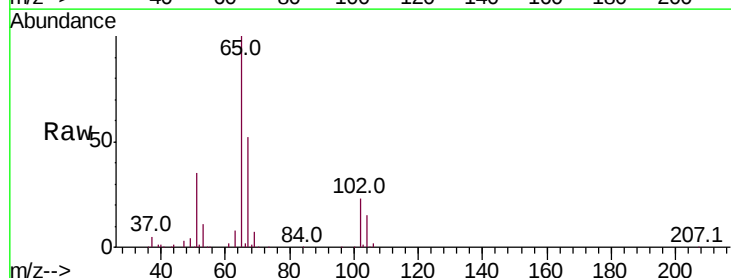
Acq: 23 Oct 2020 18:23

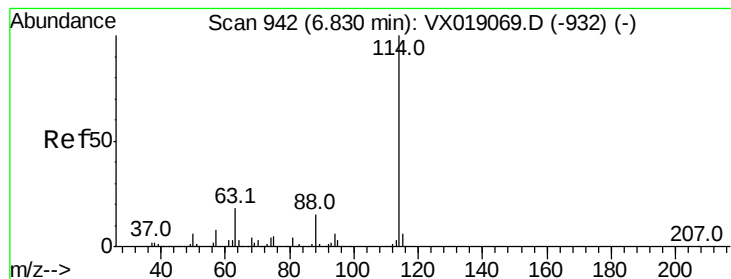
Tgt Ion: 65 Resp: 83265

Ion Ratio Lower Upper

65 100

67 52.4 42.0 63.0





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX019084.D

Acq: 23 Oct 2020 18:23

Instrument :

MSVOA_X

ClientSampleId :

TT-019-IDW/GW-20201019

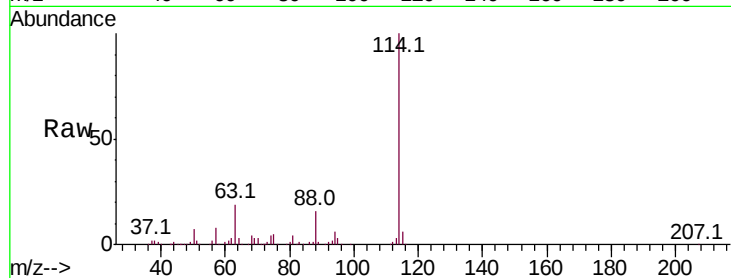
Tot Ion:114 Resp: 227586

Ion Ratio Lower Upper

114 100

63 18.6 14.6 21.8

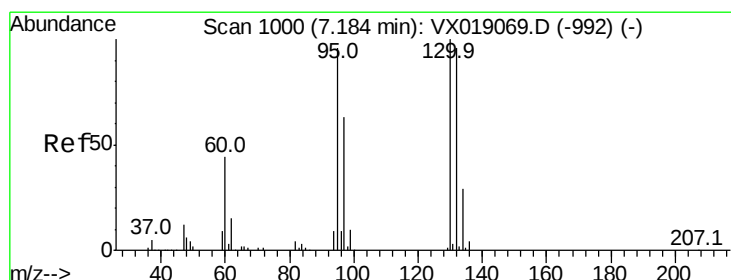
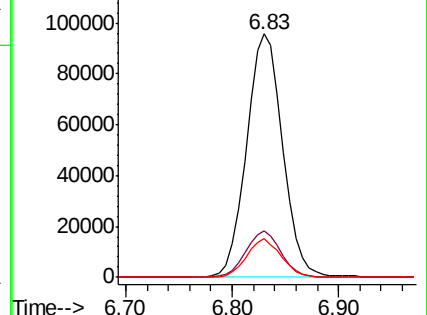
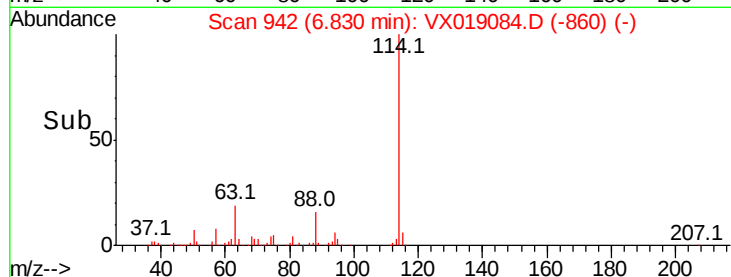
88 15.3 12.2 18.2



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



#37

Trichloroethene

Concen: 22.413 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VX019084.D

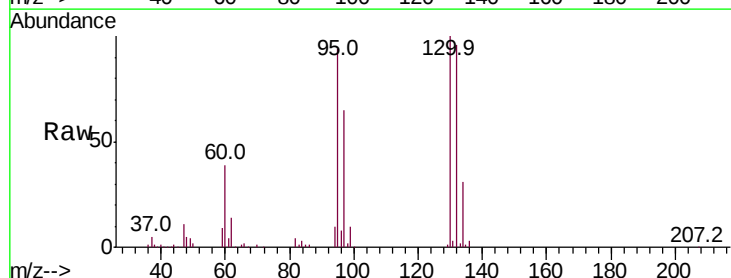
Acq: 23 Oct 2020 18:23

Tgt Ion:130 Resp: 60858

Ion Ratio Lower Upper

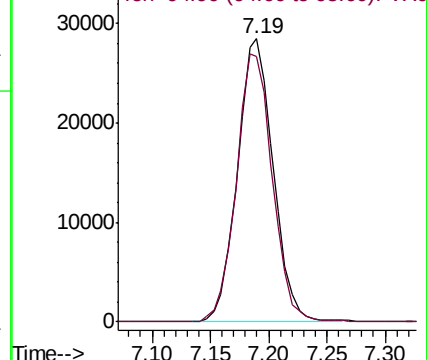
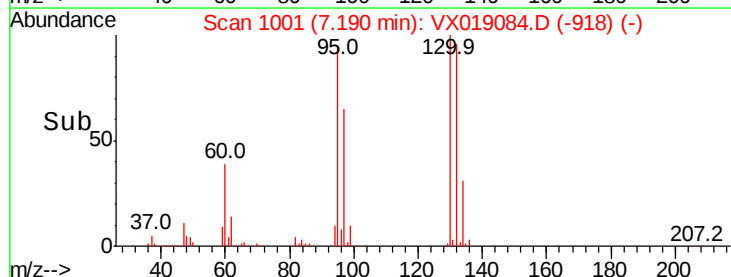
130 100

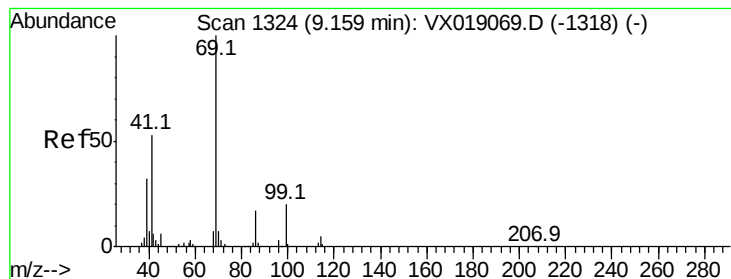
95 94.0 76.8 115.2



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VX0





#51

Ethyl methacrylate

Concen: 0.238 ug/l

RT: 8.70 min Scan# 1249

Delta R.T. -0.46 min

Lab File: VX019084.D

Acq: 23 Oct 2020 18:23

Instrument :

MSVOA_X

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TT-019-IDW/GW-20201019

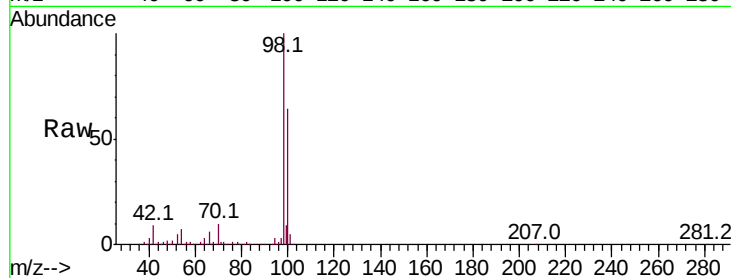
Tot Ion: 69 Resp: 856

Ion Ratio Lower Upper

69 100

41 75.9 26.5 79.4

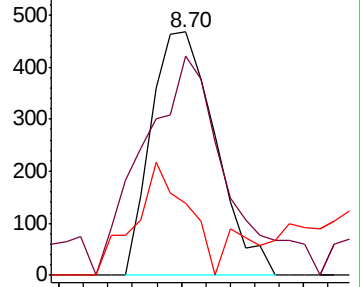
39 15.4 16.2 48.6#



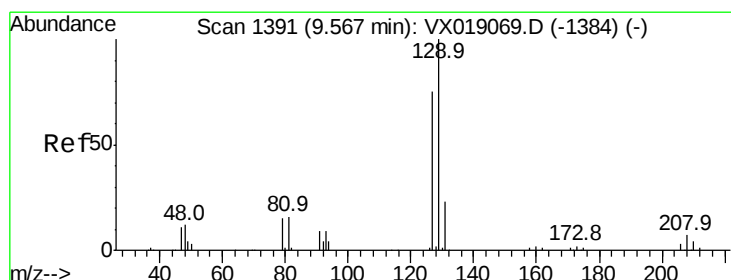
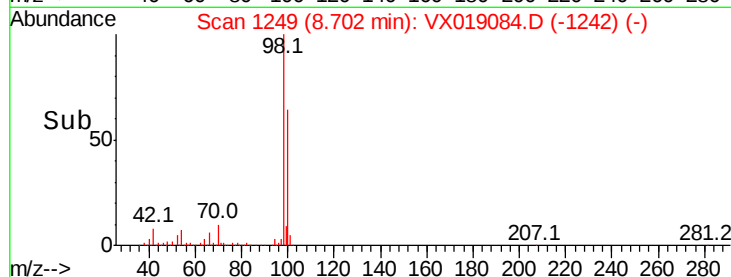
Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



Time--> 8.65 8.70 8.75



#53

Dibromochloromethane

Concen: 1.804 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX019084.D

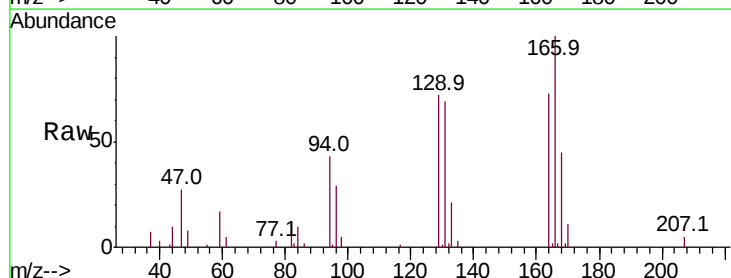
Acq: 23 Oct 2020 18:23

Tgt Ion: 129 Resp: 4951

Ion Ratio Lower Upper

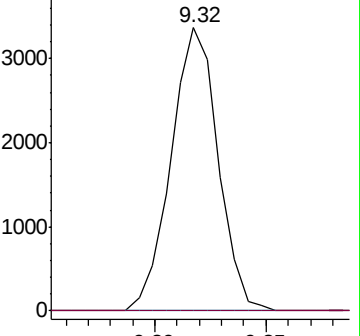
129 100

127 0.0 38.4 115.1#

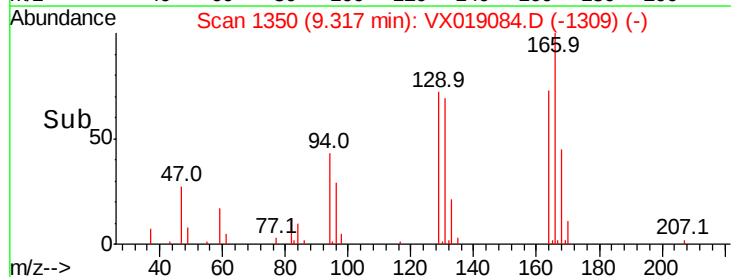


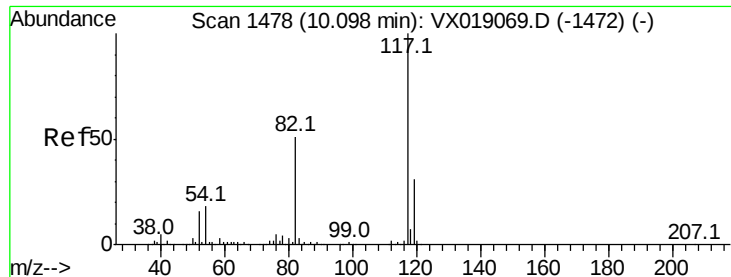
Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



Time--> 9.30 9.35

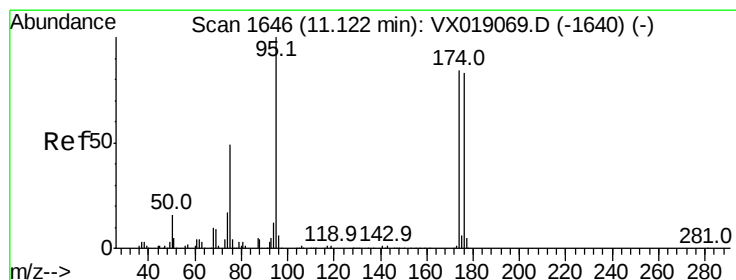
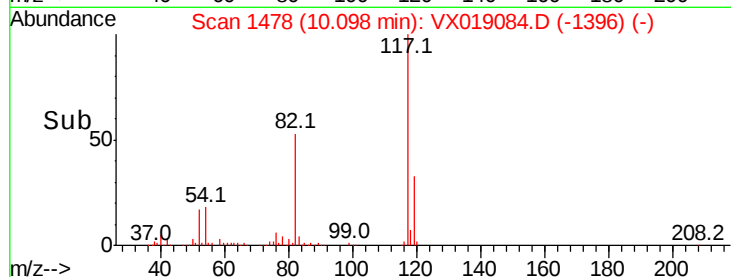
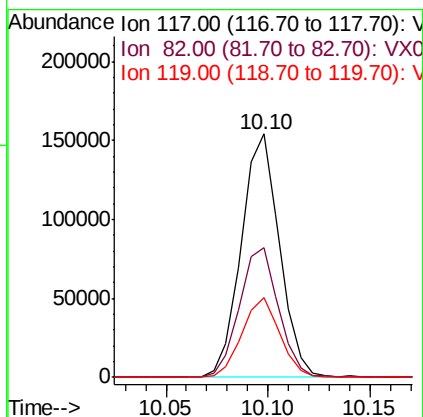
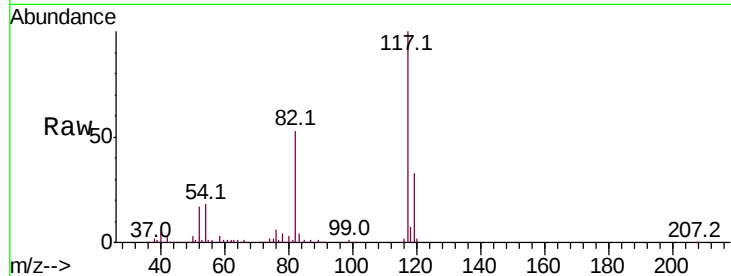




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX019084.D
Acq: 23 Oct 2020 18:23

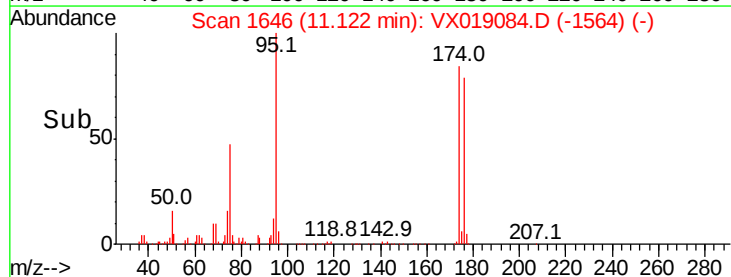
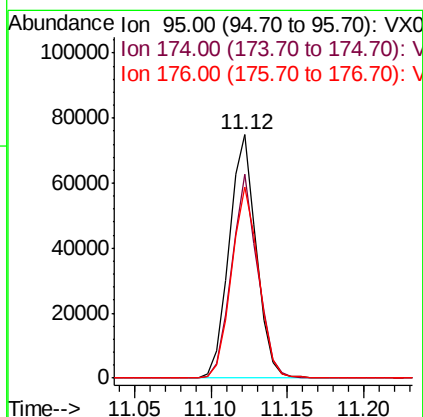
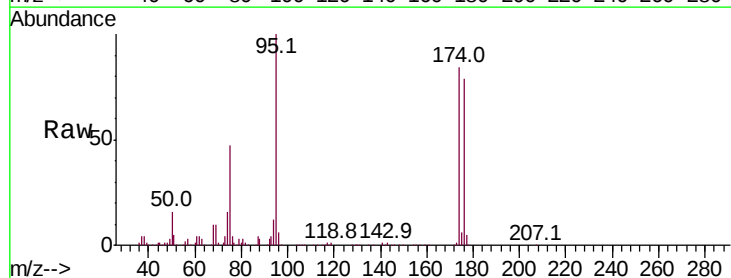
Instrument :
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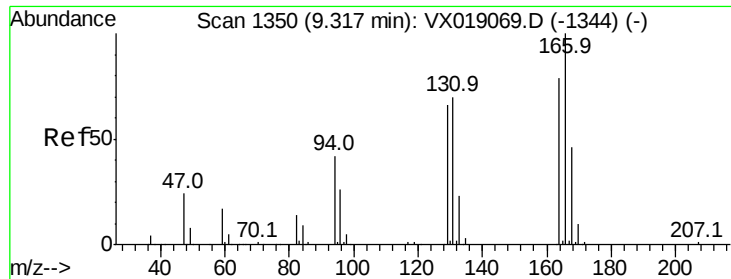
Tot Ion:117 Resp: 201198
Ion Ratio Lower Upper
117 100
82 54.7 42.5 63.7
119 32.6 25.6 38.4



#60
4-Bromofluorobenzene
Concen: 30.353 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX019084.D
Acq: 23 Oct 2020 18:23

Tgt Ion: 95 Resp: 91661
Ion Ratio Lower Upper
95 100
174 80.7 66.3 99.5
176 79.2 65.5 98.3





#61

Tetrachloroethene

Concen: 2.119 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. 0.00 min

Lab File: VX019084.D

Acq: 23 Oct 2020 18:23

Instrument :

MSVOA_X

ClientSampleId :

TT-019-IDW/GW-20201019

Tot Ion:164 Resp: 5059

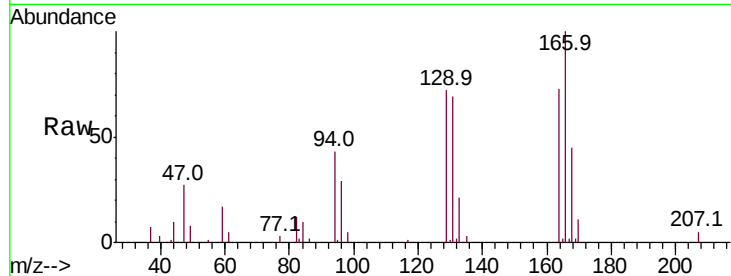
Ion Ratio Lower Upper

164 100

166 136.7 101.9 152.9

129 97.8 67.0 100.6

131 94.9 71.1 106.7

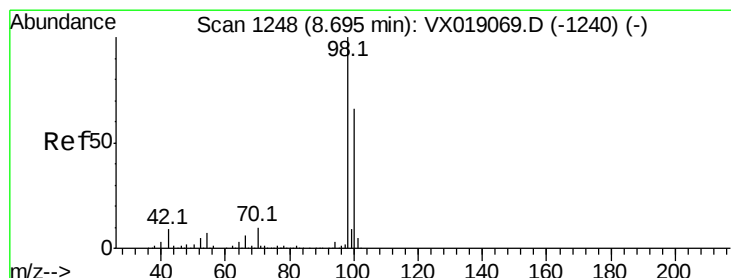
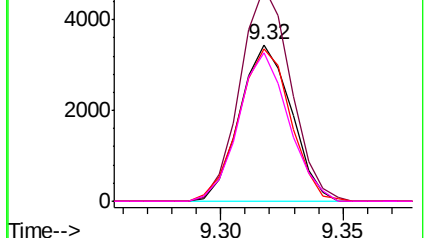
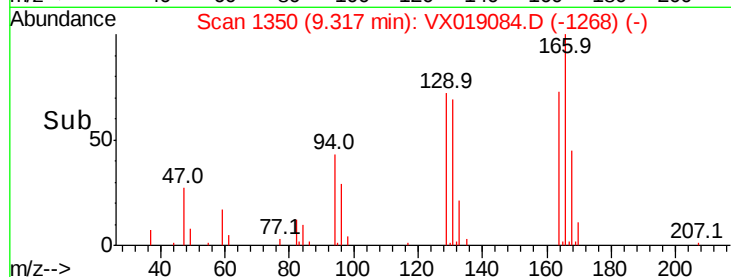


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#63

Toluene-d8

Concen: 30.512 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019084.D

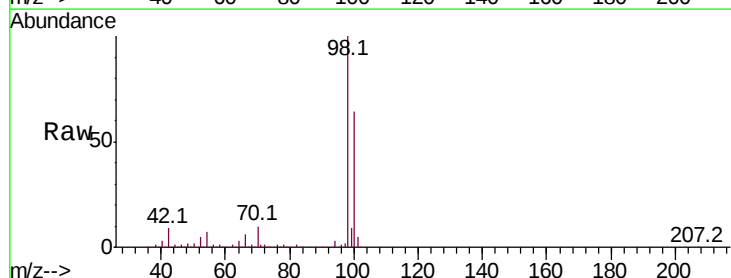
Acq: 23 Oct 2020 18:23

Tgt Ion: 98 Resp: 271042

Ion Ratio Lower Upper

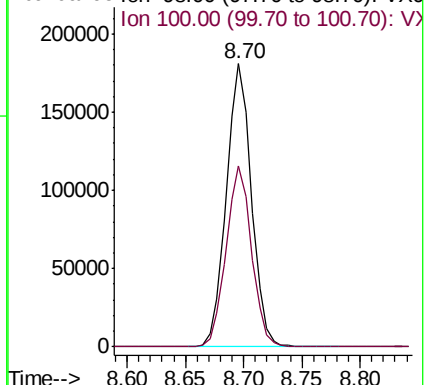
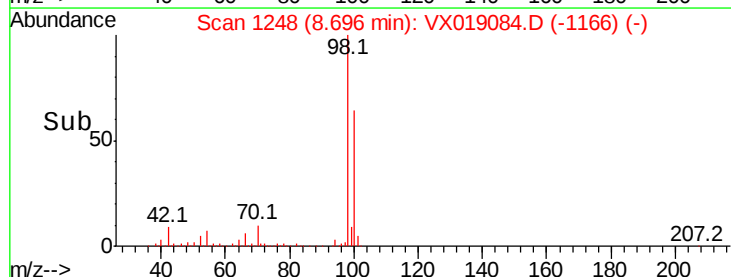
98 100

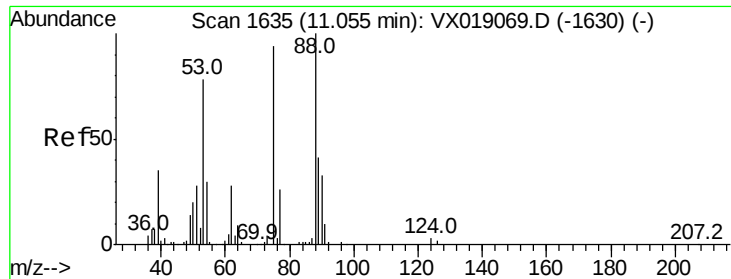
100 64.6 52.2 78.4



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: 38.766 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019084.D
 Acq: 23 Oct 2020 18:23

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-019-IDW/GW-20201019

Tot Ion: 75 Resp: 45316
 Ion Ratio Lower Upper
 75 100
 53 0.0 41.6 124.8#
 89 0.0 21.8 65.3#

