

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV061220\
 Data File : VV016879.D
 Acq On : 12 Jun 2020 15:13
 Operator : SY/MD
 Sample : L2947-02
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXE1

Quant Time: Jun 13 01:42:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM060820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jun 13 01:34:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	309590	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	298615	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	152735	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	97374	44.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.14%
7) Chloroethane-d5	1.56	69	71425	54.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	108.98%
11) 1,1-Dichloroethene-d2	2.12	63	175148	47.75	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.50%
21) 2-Butanone-d5	3.89	46	166250	102.82	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.82%
24) Chloroform-d	4.37	84	219278	49.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.72%
26) 1,2-Dichloroethane-d4	5.05	65	156805	51.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.80%
32) Benzene-d6	5.07	84	417697	48.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.04%
36) 1,2-Dichloropropane-d6	6.09	67	128198	47.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.56%
41) Toluene-d8	7.34	98	383867	48.60	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.20%
43) trans-1,3-Dichloropropene-	7.64	79	66134	47.32	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.64%
47) 2-Hexanone-d5	8.11	63	105906	90.53	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	90.53%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	178855	50.35	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.70%
64) 1,2-Dichlorobenzene-d4	11.65	152	167555	51.41	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.82%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	13352	6.049	ug/L	84
8) Chloroethane	1.58	64	11791	10.814	ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1504	0.914	ug/L #	24
12) 1,1-Dichloroethene	2.13	96	65570	42.673	ug/L	87
13) Acetone	2.18	43	1425	1.338	ug/L	53
17) trans-1,2-Dichloroethene	2.78	96	2079	0.992	ug/L	80
19) 1,1-Dichloroethane	3.21	63	1796534	455.560	ug/L	98
20) cis-1,2-Dichloroethene	3.94	96	21915	9.595	ug/L	98
25) Chloroform	4.64	83	9459	2.334	ug/L	97
27) 1,2-Dichloroethane	5.16	62	2701	0.795	ug/L #	81
30) 1,1,1-Trichloroethane	4.63	97	5878635	1543.676	ug/L	99
31) Carbon tetrachloride	4.63	117	714440	216.860	ug/L	100
33) Benzene	5.13	78	19578	2.216	ug/L	100
35) Methylcyclohexane	6.09	83	33549	9.025	ug/L #	17
42) Toluene	7.41	91	7248	0.778	ug/L	99
45) 1,1,2-Trichloroethane	7.87	97	1796	0.810	ug/L	83
51) Chlorobenzene	8.90	112	31263	5.145	ug/L	96

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QLast Update : Sat Jun 13 01:34:58 2020
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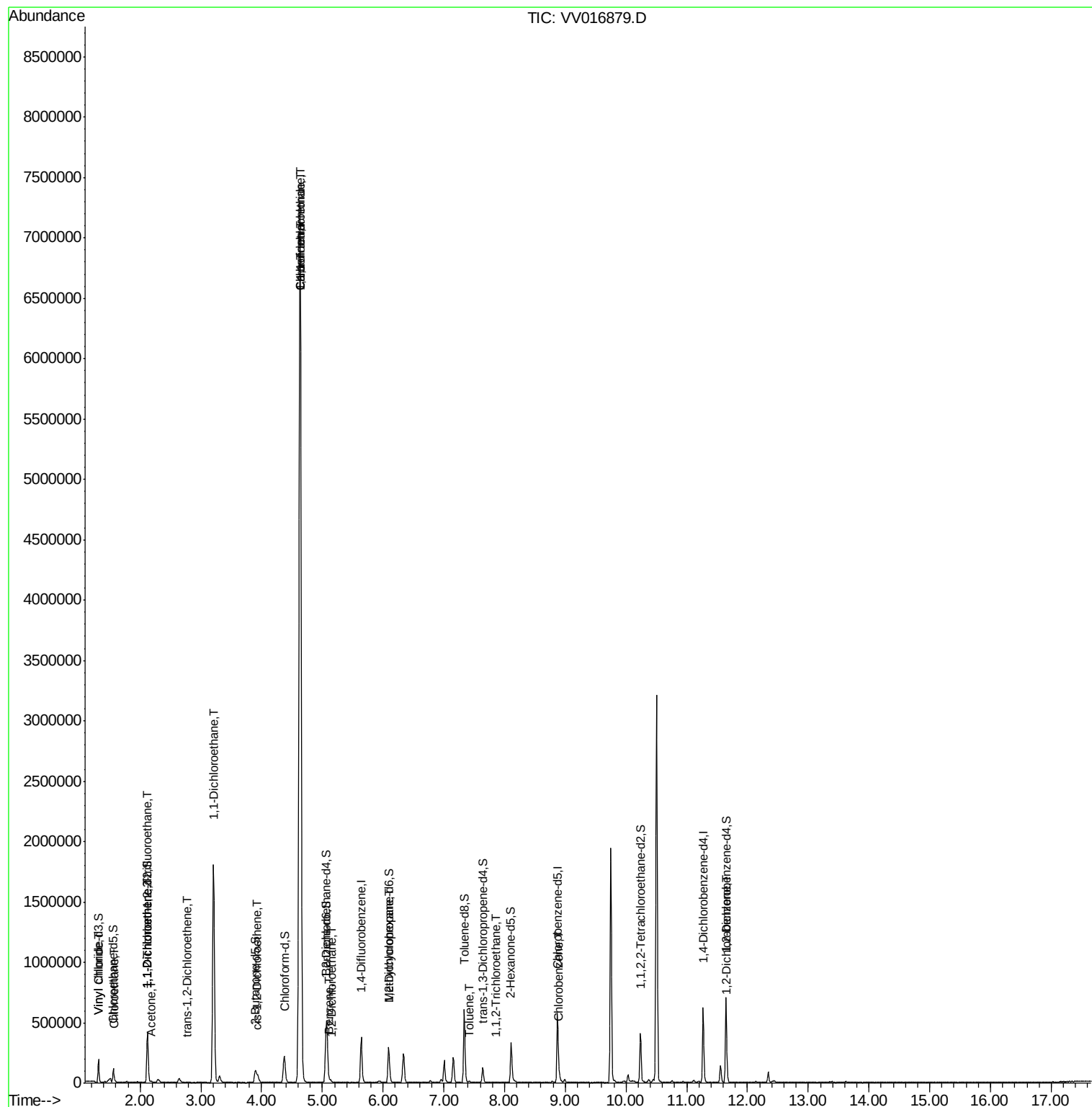
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	11.67	146	11960	2.467	ug/L	99

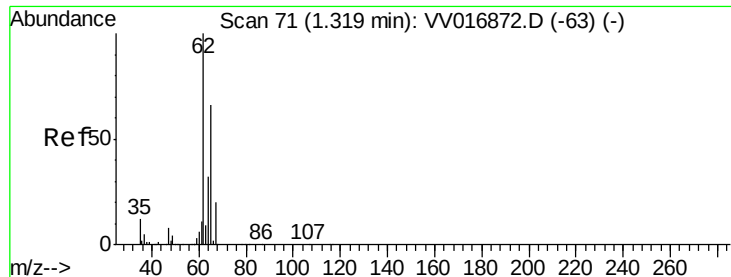
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 6.049 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV016879.D

Acq: 12 Jun 2020 15:13

Instrument :

MSVOA_V

ClientSampleId :

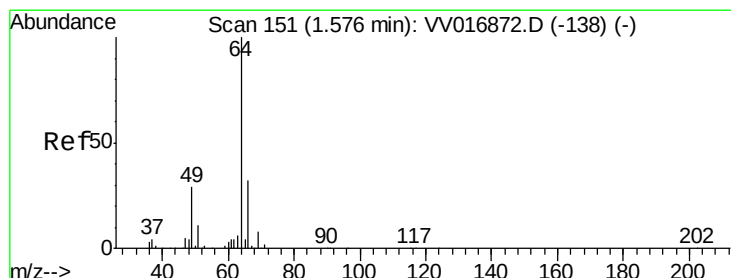
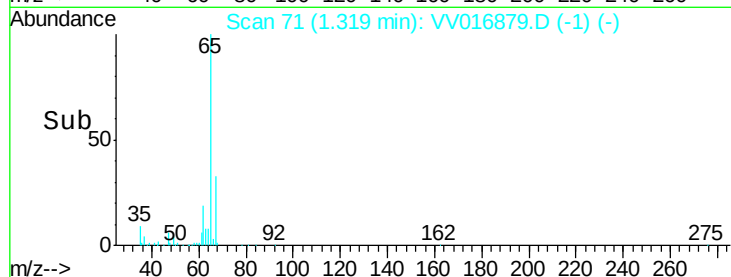
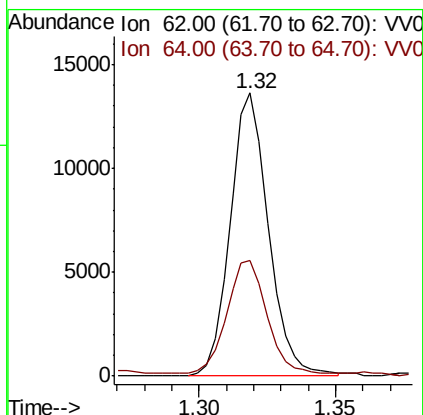
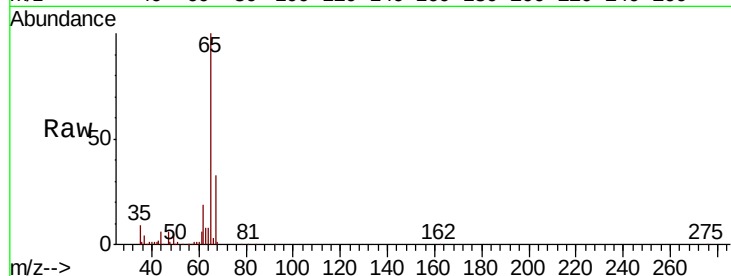
BFXE1

Tot Ion: 62 Resp: 13352

Ion Ratio Lower Upper

62 100

64 40.8 22.3 41.5



#8

Chloroethane

Concen: 10.814 ug/L

RT: 1.58 min Scan# 151

Delta R.T. 0.00 min

Lab File: VV016879.D

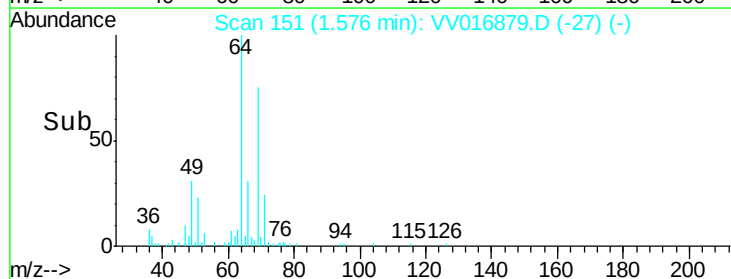
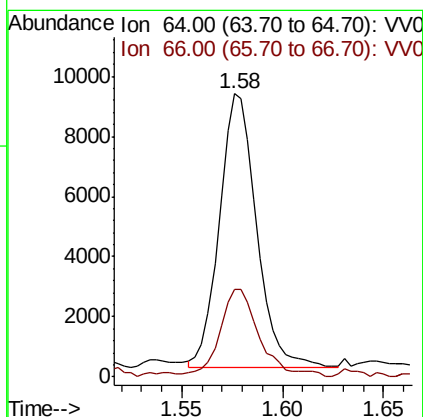
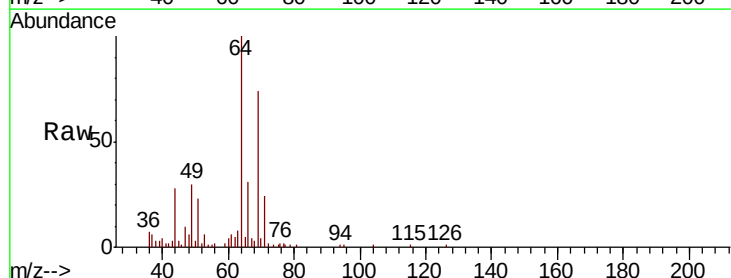
Acq: 12 Jun 2020 15:13

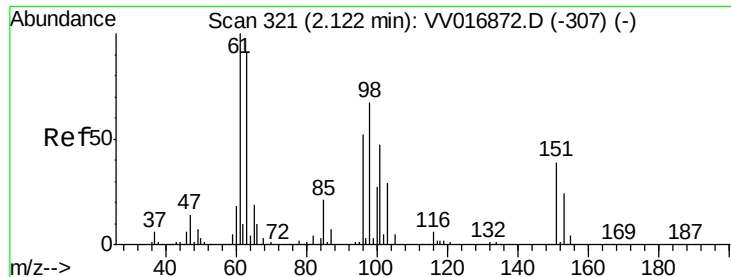
Tgt Ion: 64 Resp: 11791

Ion Ratio Lower Upper

64 100

66 30.9 23.2 43.0





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.914 ug/L

RT: 2.12 min Scan# 319

Delta R.T. -0.01 min

Lab File: VV016879.D

Acq: 12 Jun 2020 15:13

Instrument :

MSVOA_V

ClientSampled :

BFXE1

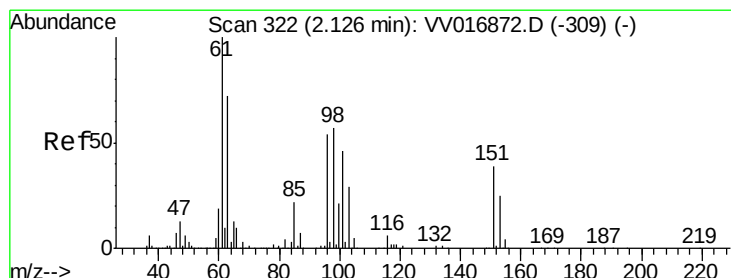
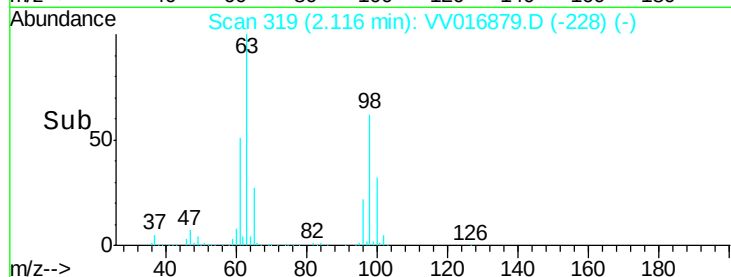
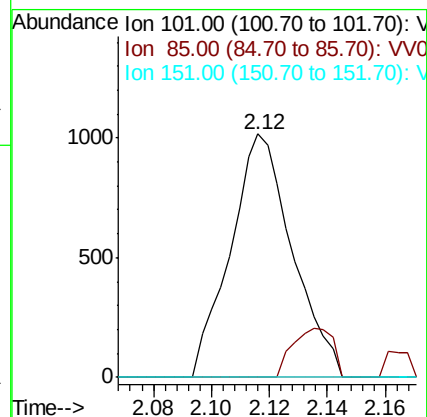
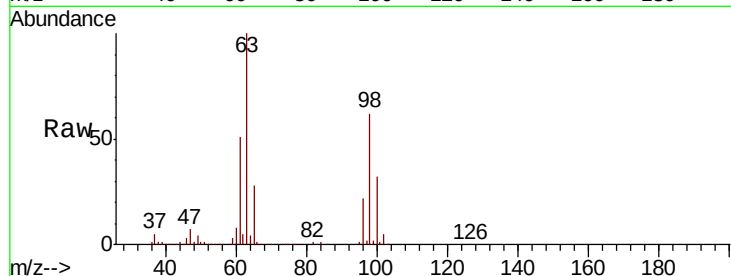
Tot Ion:101 Resp: 1504

Ion Ratio Lower Upper

101 100

85 12.9 35.5 53.3#

151 0.0 63.9 95.9#



#12

1,1-Dichloroethene

Concen: 42.673 ug/L

RT: 2.13 min Scan# 322

Delta R.T. 0.00 min

Lab File: VV016879.D

Acq: 12 Jun 2020 15:13

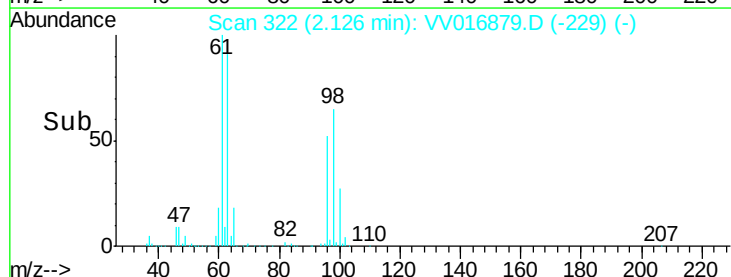
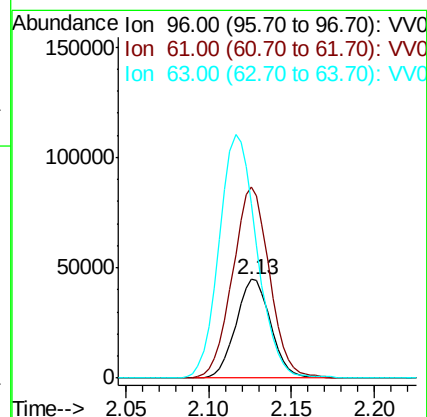
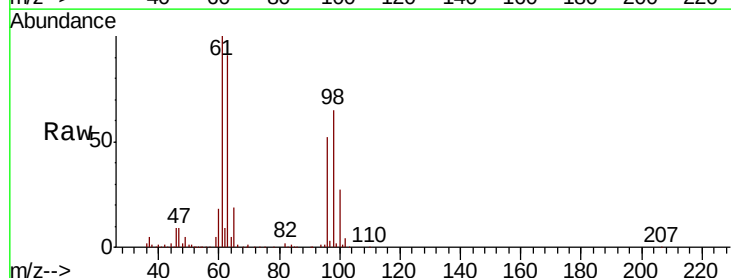
Tgt Ion: 96 Resp: 65570

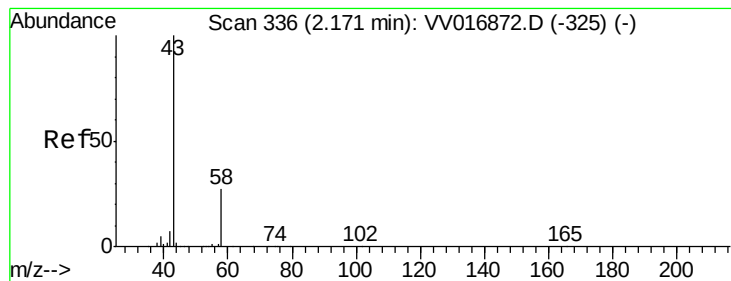
Ion Ratio Lower Upper

96 100

61 193.8 130.4 242.2

63 176.4 103.3 191.9





#13

Acetone

Concen: 1.338 ug/L

RT: 2.18 min Scan# 338

Delta R.T. 0.01 min

Lab File: VV016879.D

Acq: 12 Jun 2020 15:13

Instrument :

MSVOA_V

ClientSampleId :

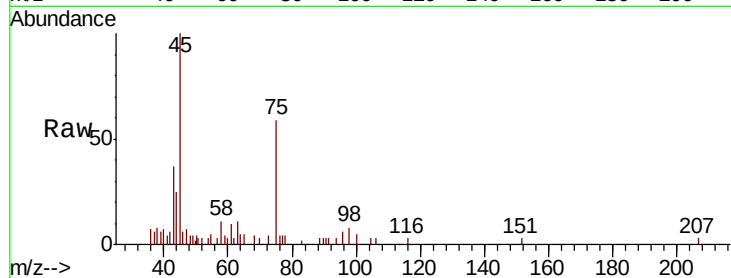
BFXE1

Tot Ion: 43 Resp: 1425

Ion Ratio Lower Upper

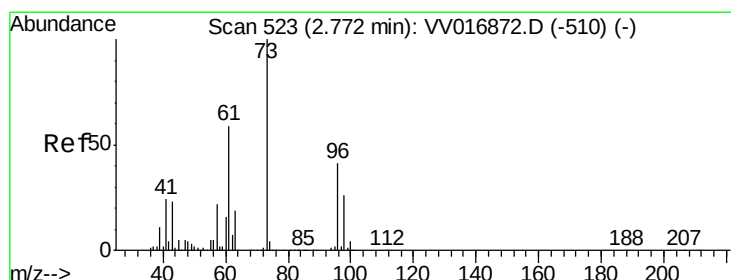
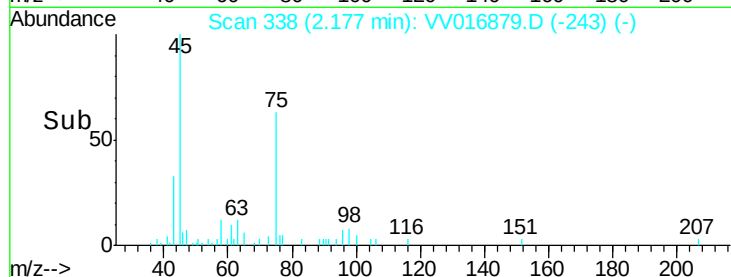
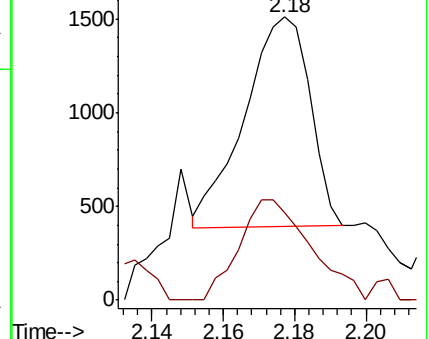
43 100

58 52.2 0.0 55.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#17

trans-1,2-Dichloroethene

Concen: 0.992 ug/L

RT: 2.78 min Scan# 524

Delta R.T. 0.00 min

Lab File: VV016879.D

Acq: 12 Jun 2020 15:13

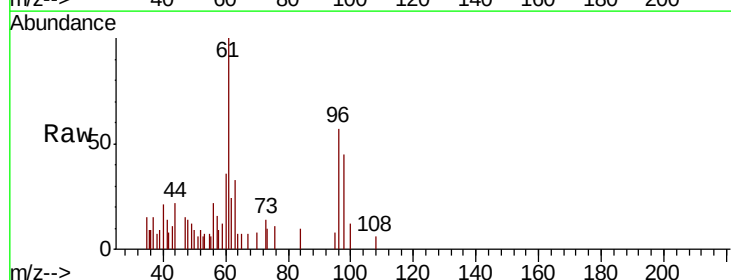
Tgt Ion: 96 Resp: 2079

Ion Ratio Lower Upper

96 100

61 174.6 102.9 191.1

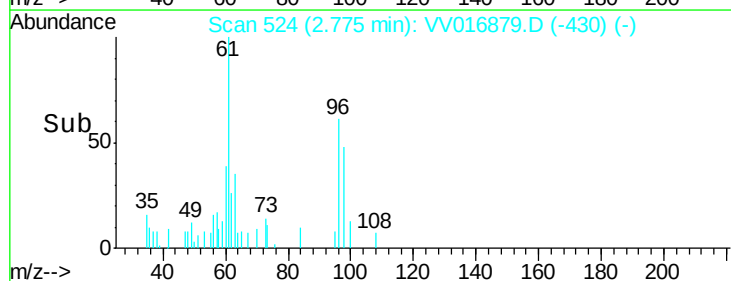
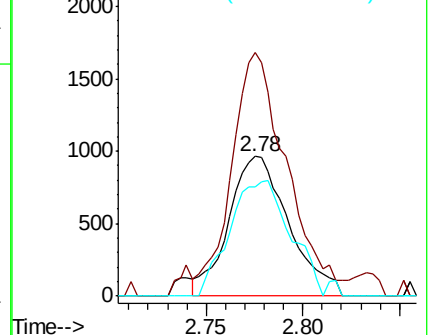
98 78.2 45.5 84.5

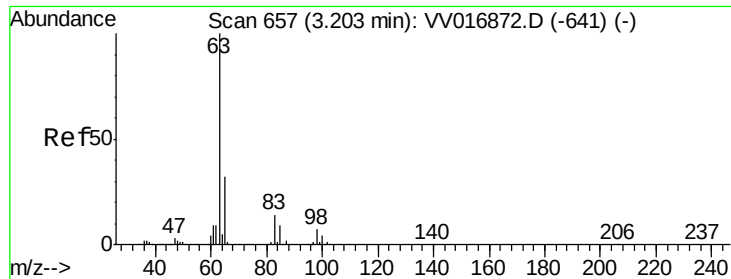


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



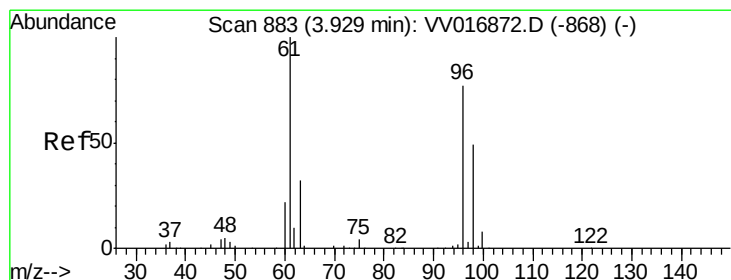
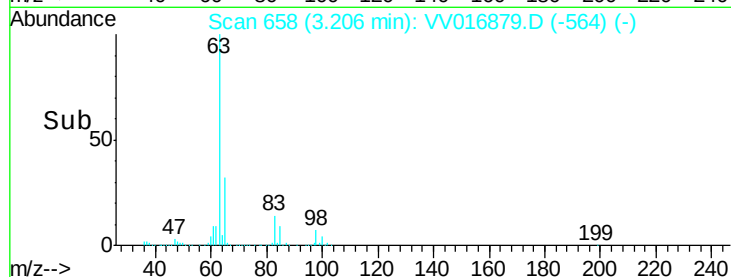
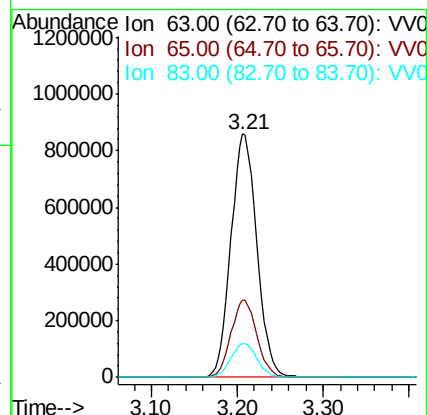
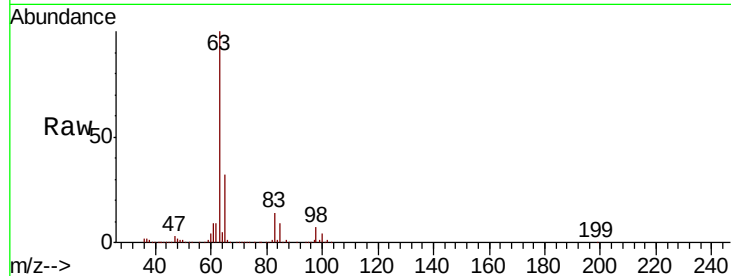


#19
 1,1-Dichloroethane
 Concen: 455.560 ug/L
 RT: 3.21 min Scan# 658
 Delta R.T. 0.00 min
 Lab File: VV016879.D
 Acq: 12 Jun 2020 15:13

Instrument :
 MSVOA_V
 ClientSampleID :
 BFXE1

Tot Ion: 63 Resp: 1796534

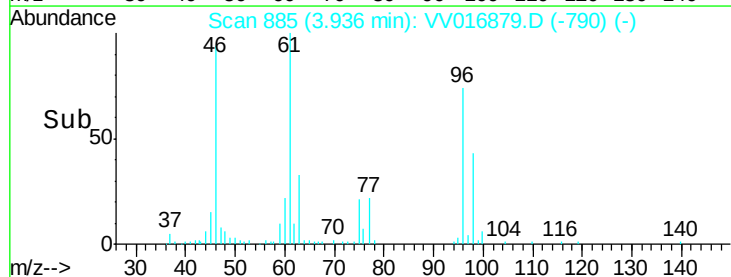
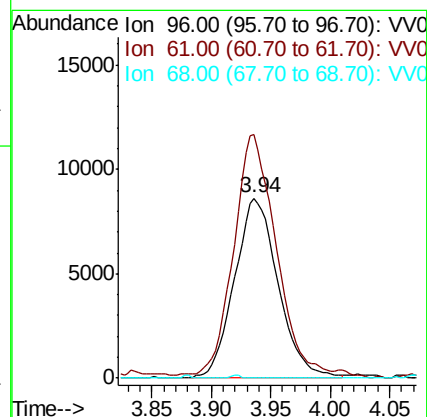
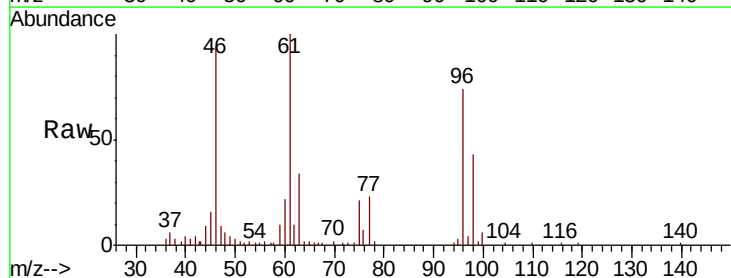
Ion	Ratio	Lower	Upper
63	100		
65	31.8	23.2	43.0
83	14.0	10.0	18.6

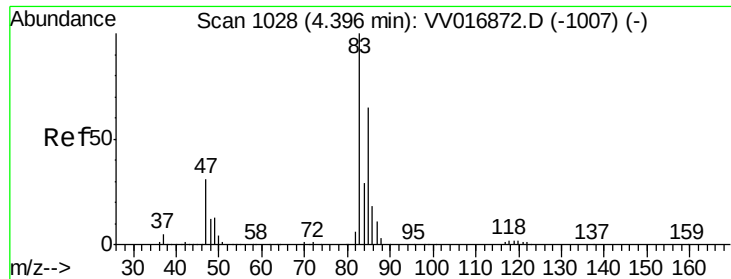


#20
 cis-1,2-Dichloroethene
 Concen: 9.595 ug/L
 RT: 3.94 min Scan# 885
 Delta R.T. 0.01 min
 Lab File: VV016879.D
 Acq: 12 Jun 2020 15:13

Tgt Ion: 96 Resp: 21915

Ion	Ratio	Lower	Upper
96	100		
61	135.5	93.4	173.4
68	0.0	0.0	0.0





#25

Chloroform

Concen: 2.334 ug/L

RT: 4.64 min Scan# 1103

Delta R.T. 0.24 min

Lab File: VV016879.D

Acq: 12 Jun 2020 15:13

Instrument :

MSVOA_V

ClientSampled :

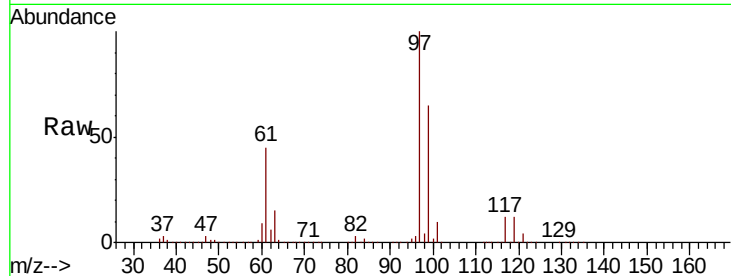
BFXE1

Tot Ion: 83 Resp: 9459

Ion Ratio Lower Upper

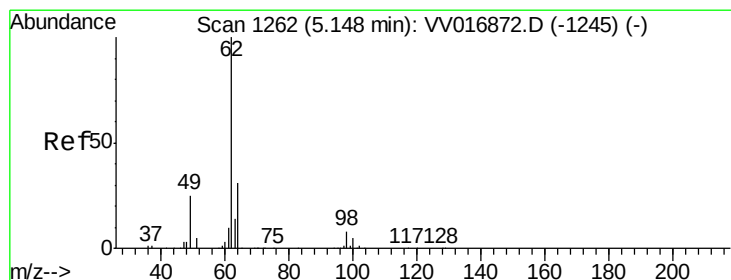
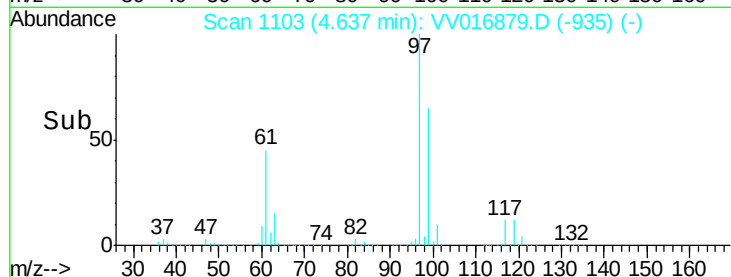
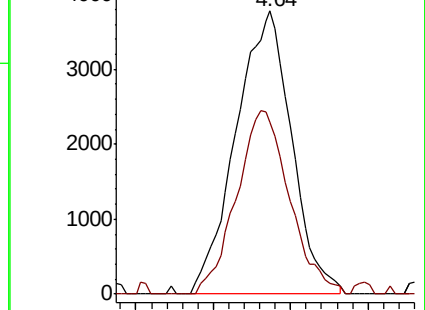
83 100

85 60.8 44.1 81.9



Abundance Ion 83.00 (82.70 to 83.70): VV016879.D (-1103) (-)

Ion 85.00 (84.70 to 85.70): VV016879.D (-1103) (-)



#27

1,2-Dichloroethane

Concen: 0.795 ug/L

RT: 5.16 min Scan# 1266

Delta R.T. 0.01 min

Lab File: VV016879.D

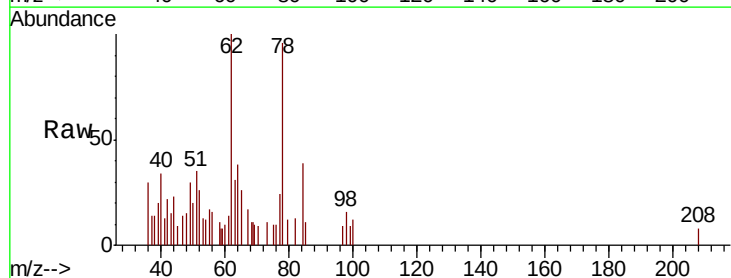
Acq: 12 Jun 2020 15:13

Tgt Ion: 62 Resp: 2701

Ion Ratio Lower Upper

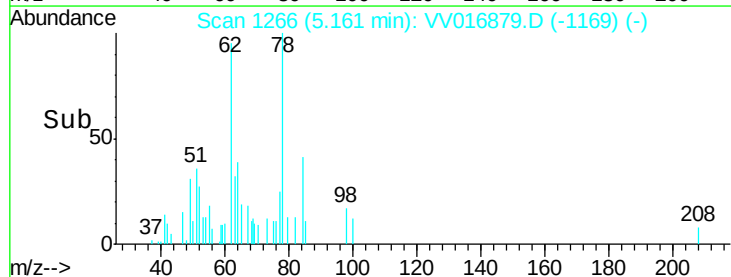
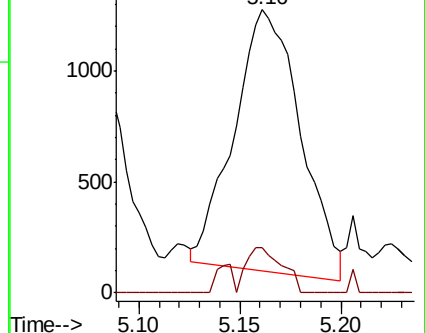
62 100

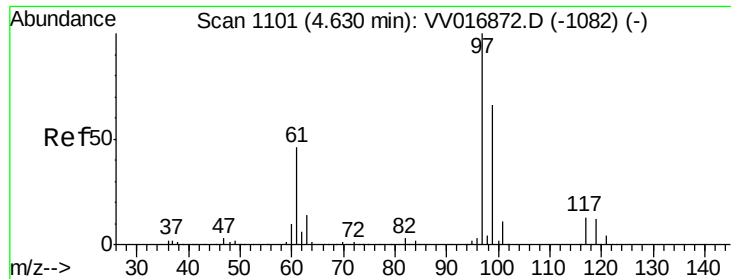
98 16.2 7.4 11.2#



Abundance Ion 62.00 (61.70 to 62.70): VV016879.D (-1266) (-)

Ion 98.00 (97.70 to 98.70): VV016879.D (-1266) (-)





#30

1,1,1-Trichloroethane

Concen: 1543.676 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

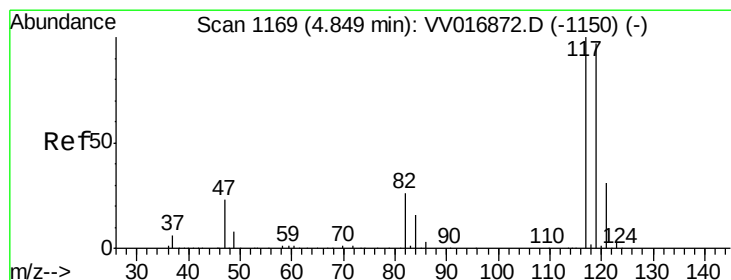
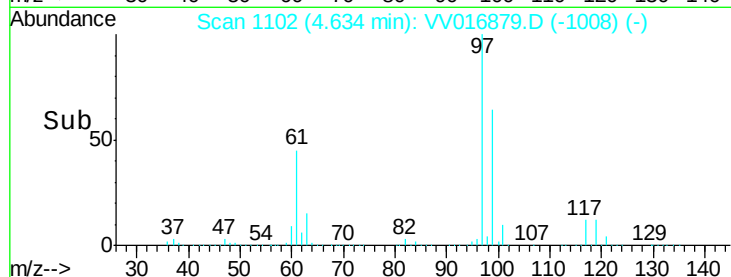
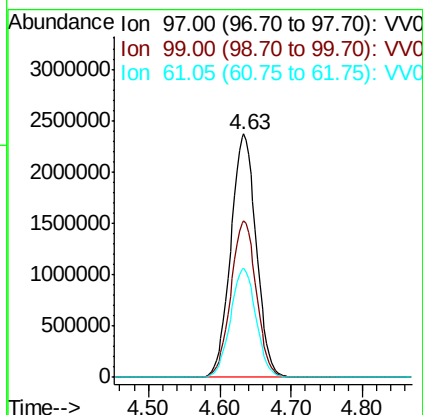
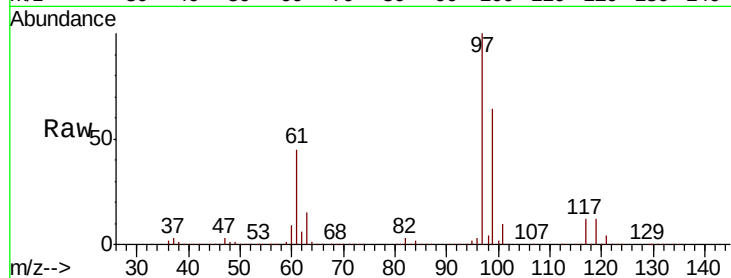
Lab File: VV016879.D

Acq: 12 Jun 2020 15:13

Instrument :
MSVOA_V
ClientSampleId :
BFXE1

Tot Ion: 97 Resp: 5878635

Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.3	76.9
61	44.8	36.7	55.1



#31

Carbon tetrachloride

Concen: 216.860 ug/L

RT: 4.63 min Scan# 1102

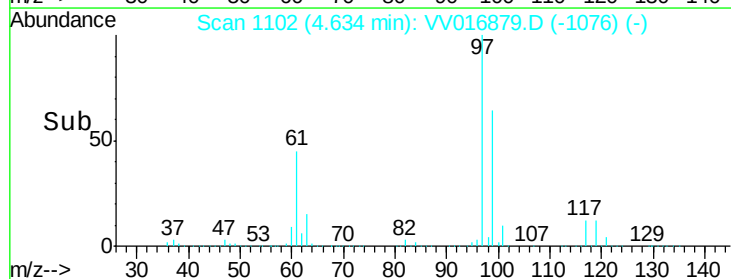
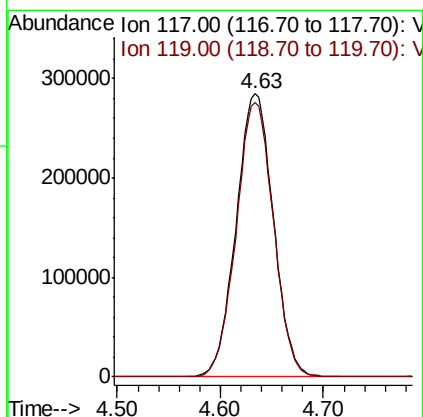
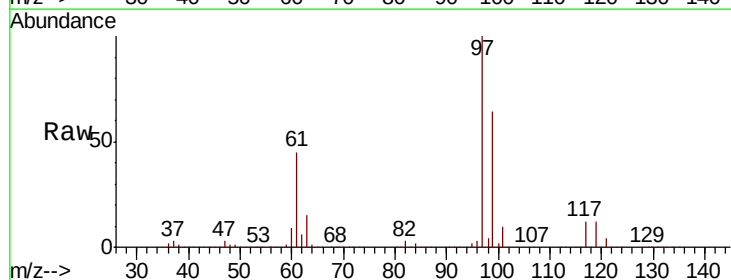
Delta R.T. -0.22 min

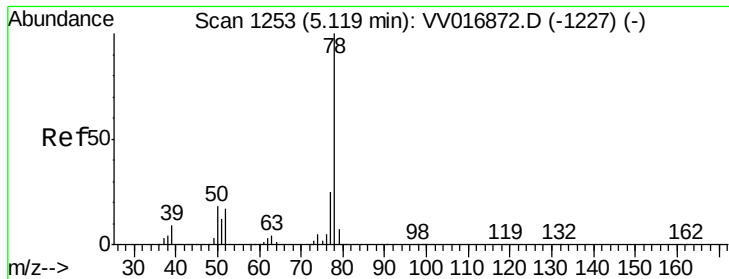
Lab File: VV016879.D

Acq: 12 Jun 2020 15:13

Tgt Ion: 117 Resp: 714440

Ion	Ratio	Lower	Upper
117	100		
119	96.8	77.4	116.2





#33

Benzene

Concen: 2.216 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VV016879.D

Acq: 12 Jun 2020 15:13

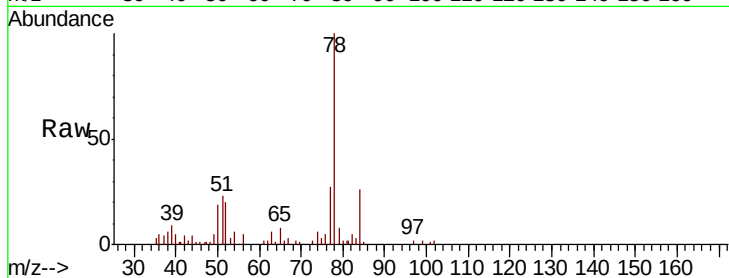
Instrument :

MSVOA_V

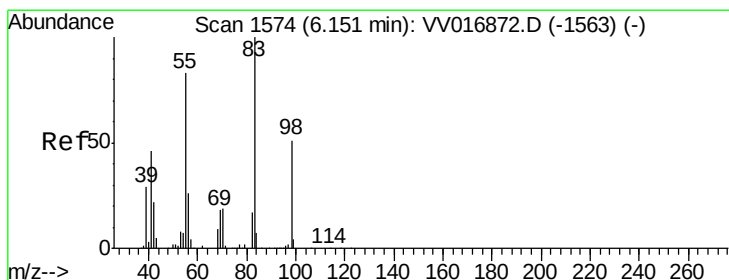
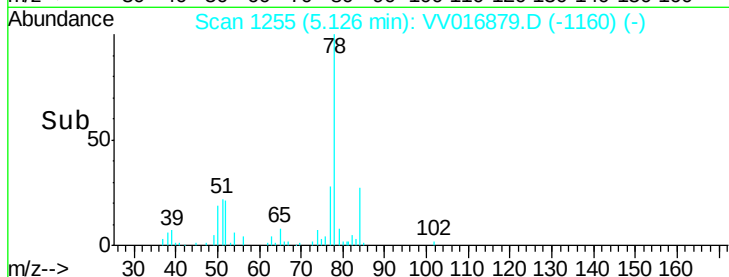
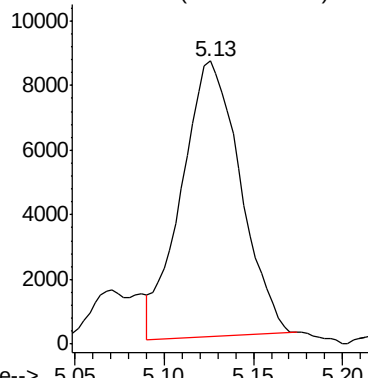
ClientSampleId :

BFXE1

Tgt Ion: 78 Resp: 19578



Abundance Ion 78.00 (77.70 to 78.70): VV0



#35

Methylcyclohexane

Concen: 9.025 ug/L

RT: 6.09 min Scan# 1556

Delta R.T. -0.06 min

Lab File: VV016879.D

Acq: 12 Jun 2020 15:13

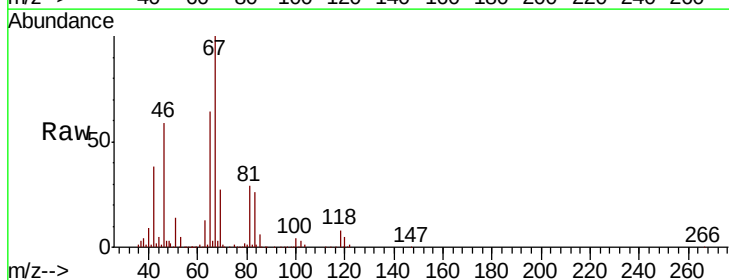
Tgt Ion: 83 Resp: 33549

Ion	Ratio	Lower	Upper
83	100		
55	0.3	64.2	96.2#
98	0.5	40.3	60.5#

83 100

55 0.3 64.2 96.2#

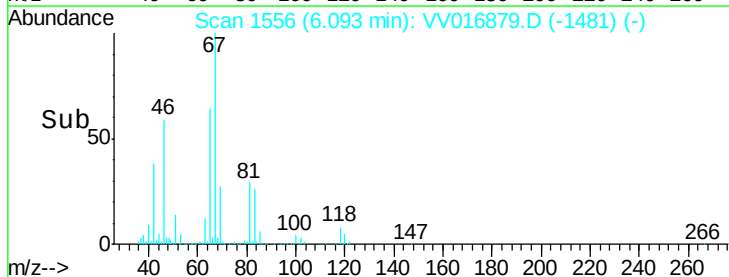
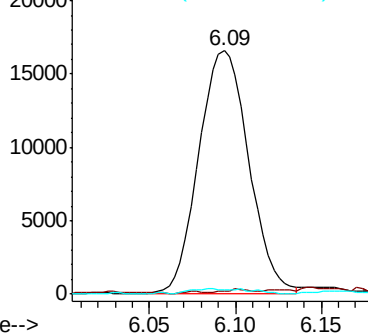
98 0.5 40.3 60.5#

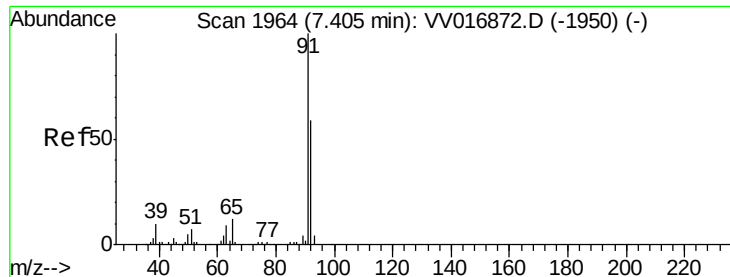


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#42

Toluene

Concen: 0.778 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.01 min

Lab File: VV016879.D

Acq: 12 Jun 2020 15:13

Instrument :

MSVOA_V

ClientSampleId :

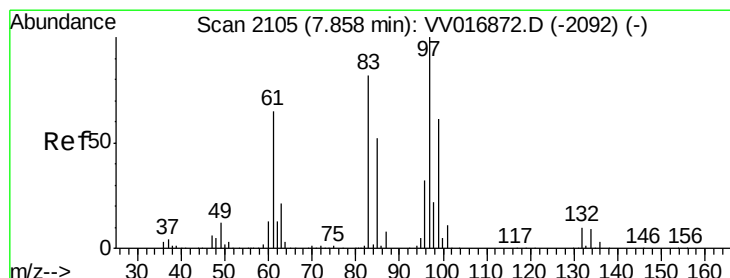
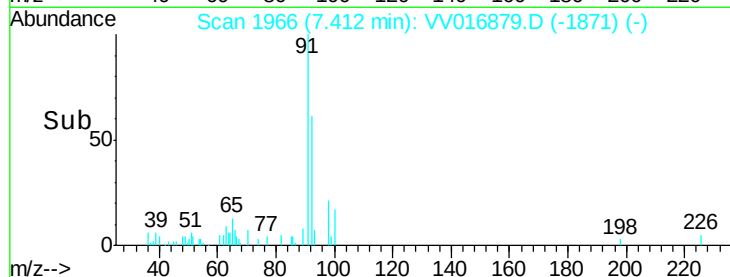
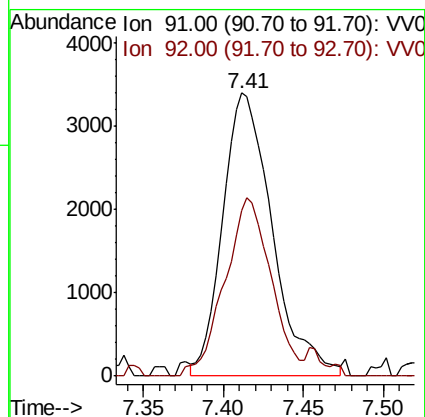
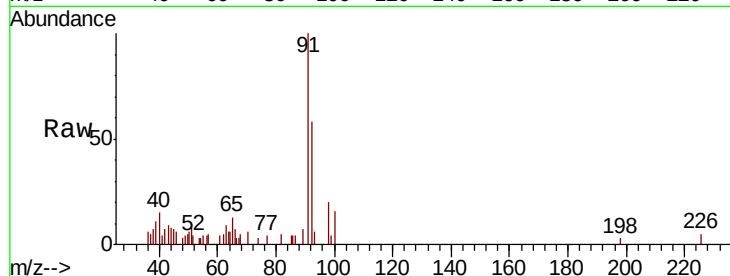
BFXE1

Tot Ion: 91 Resp: 7248

Ion Ratio Lower Upper

91 100

92 58.4 40.4 75.0



#45

1,1,2-Trichloroethane

Concen: 0.810 ug/L

RT: 7.87 min Scan# 2107

Delta R.T. 0.01 min

Lab File: VV016879.D

Acq: 12 Jun 2020 15:13

Tgt Ion: 97 Resp: 1796

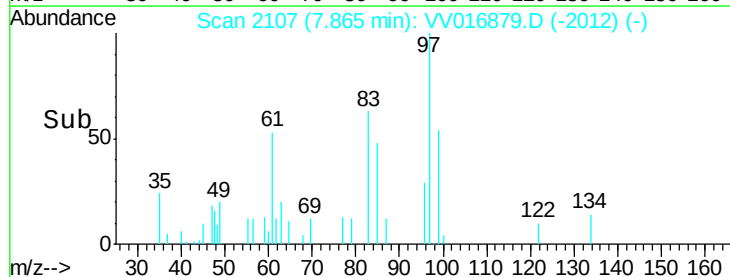
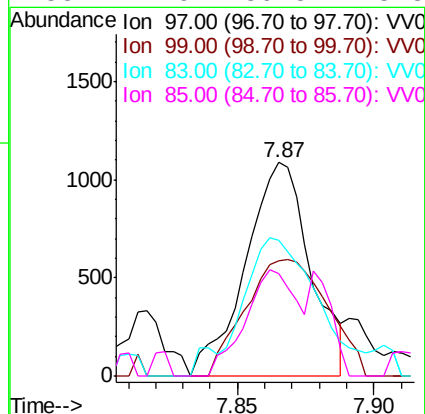
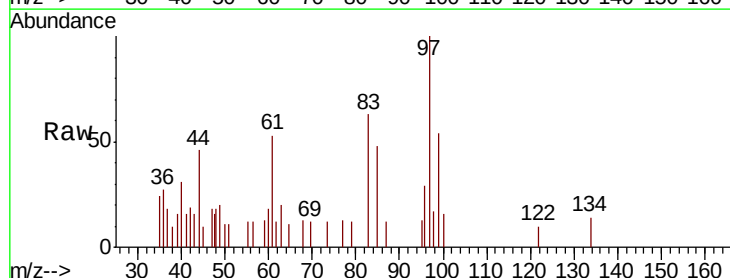
Ion Ratio Lower Upper

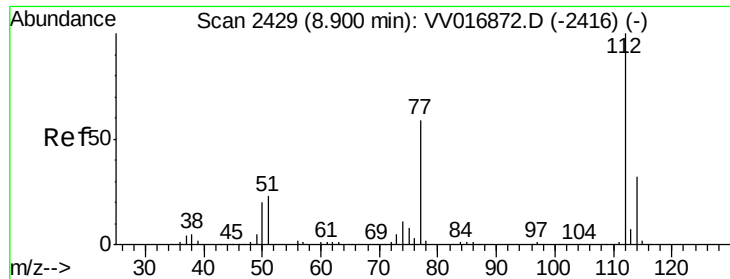
97 100

99 53.6 44.3 82.3

83 63.3 60.0 111.4

85 47.9 39.5 73.3





#51

Chlorobenzene

Concen: 5.145 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV016879.D

Acq: 12 Jun 2020 15:13

Instrument :

MSVOA_V

ClientSampleId :

BFXE1

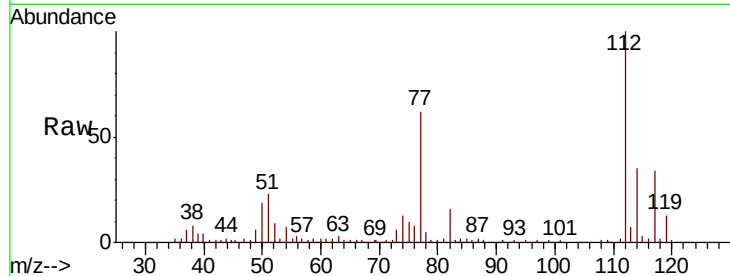
Tot Ion:112 Resp: 31263

Ion Ratio Lower Upper

112 100

114 34.8 22.3 41.3

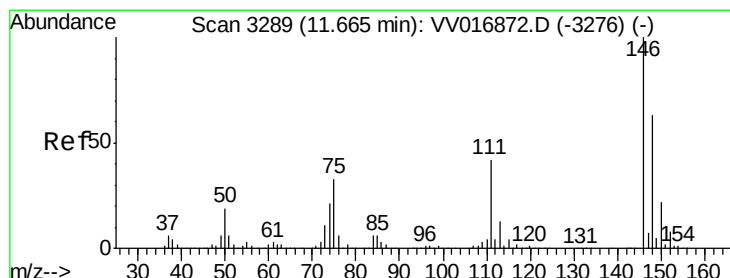
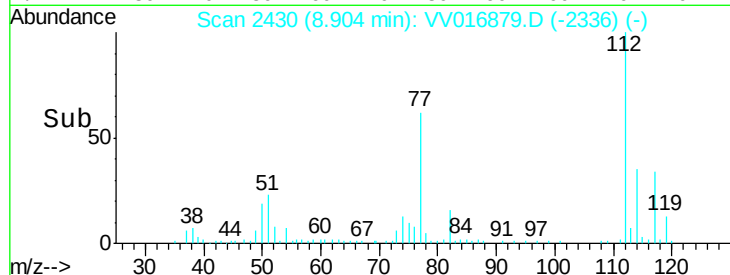
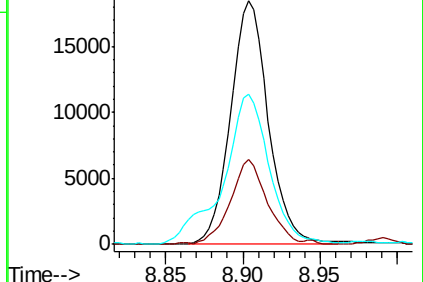
77 61.9 47.9 71.9



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#65

1,2-Dichlorobenzene

Concen: 2.467 ug/L

RT: 11.67 min Scan# 3290

Delta R.T. 0.00 min

Lab File: VV016879.D

Acq: 12 Jun 2020 15:13

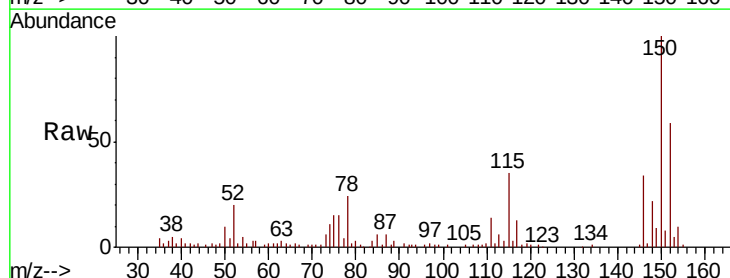
Tgt Ion:146 Resp: 11960

Ion Ratio Lower Upper

146 100

111 40.5 33.7 50.5

148 63.2 50.7 76.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

