

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101819\
 Data File : VU035279.D
 Acq On : 18 Oct 2019 20:21
 Operator : JC/SP
 Sample : K5419-11
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 19 03:43:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Oct 19 03:38:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	318706	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	316718	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	121338	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	92463	4.76	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.20%
7) Chloroethane-d5	1.94	69	89770	5.05	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	101.00%
11) 1,1-Dichloroethene-d2	2.60	63	127023	3.54	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	70.80%
20) 2-Butanone-d5	4.71	46	276417	49.50	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	99.00%
24) Chloroform-d	5.11	84	173977	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.00%
26) 1,2-Dichloroethane-d4	5.75	65	102533	5.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.20%
32) Benzene-d6	5.77	84	358124	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.80%
36) 1,2-Dichloropropane-d6	6.74	67	117454	5.11	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.20%
41) Toluene-d8	7.93	98	339301	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%
43) trans-1,3-Dichloropropene-	8.22	79	50212	4.50	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.00%
46) 2-Hexanone-d5	8.69	63	230386	46.81	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.62%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	100320	4.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.80%
64) 1,2-Dichlorobenzene-d4	12.22	152	113106	5.12	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	42062	1.522	ug/L	92
12) 1,1-Dichloroethene	2.60	96	1628	0.080	ug/L #	1
13) Acetone	2.67	43	6637	1.709	ug/L	97
15) Methyl Acetate	2.99	43	1687	0.174	ug/L #	52
18) trans-1,2-Dichloroethene	3.39	96	3390	0.153	ug/L	81
19) 1,1-Dichloroethane	3.92	63	11087	0.277	ug/L	98
22) cis-1,2-Dichloroethene	4.72	96	15842	0.649	ug/L	94
25) Chloroform	5.14	83	9434	0.215	ug/L	96
30) Cyclohexane	5.43	56	5997	0.151	ug/L	94
33) Benzene	5.82	78	18673	0.200	ug/L	100
34) Trichloroethene	6.58	95	4172	0.167	ug/L	96
35) Methylcyclohexane	6.80	83	6732	0.161	ug/L #	79
39) cis-1,3-Dichloropropene	7.61	75	3150	0.080	ug/L #	45
42) Toluene	8.01	91	15966	0.155	ug/L	98
45) 1,1,2-Trichloroethane	8.40	97	3621	0.206	ug/L #	21
48) 2-Hexanone	8.69	43	24808	2.215	ug/L #	66
52) Ethylbenzene	9.60	91	233444	1.996	ug/L	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101819\
Data File : VU035279.D
Acq On : 18 Oct 2019 20:21
Operator : JC/SP
Sample : K5419-11
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Oct 19 03:43:00 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Oct 19 03:38:09 2019
Response via : Initial Calibration

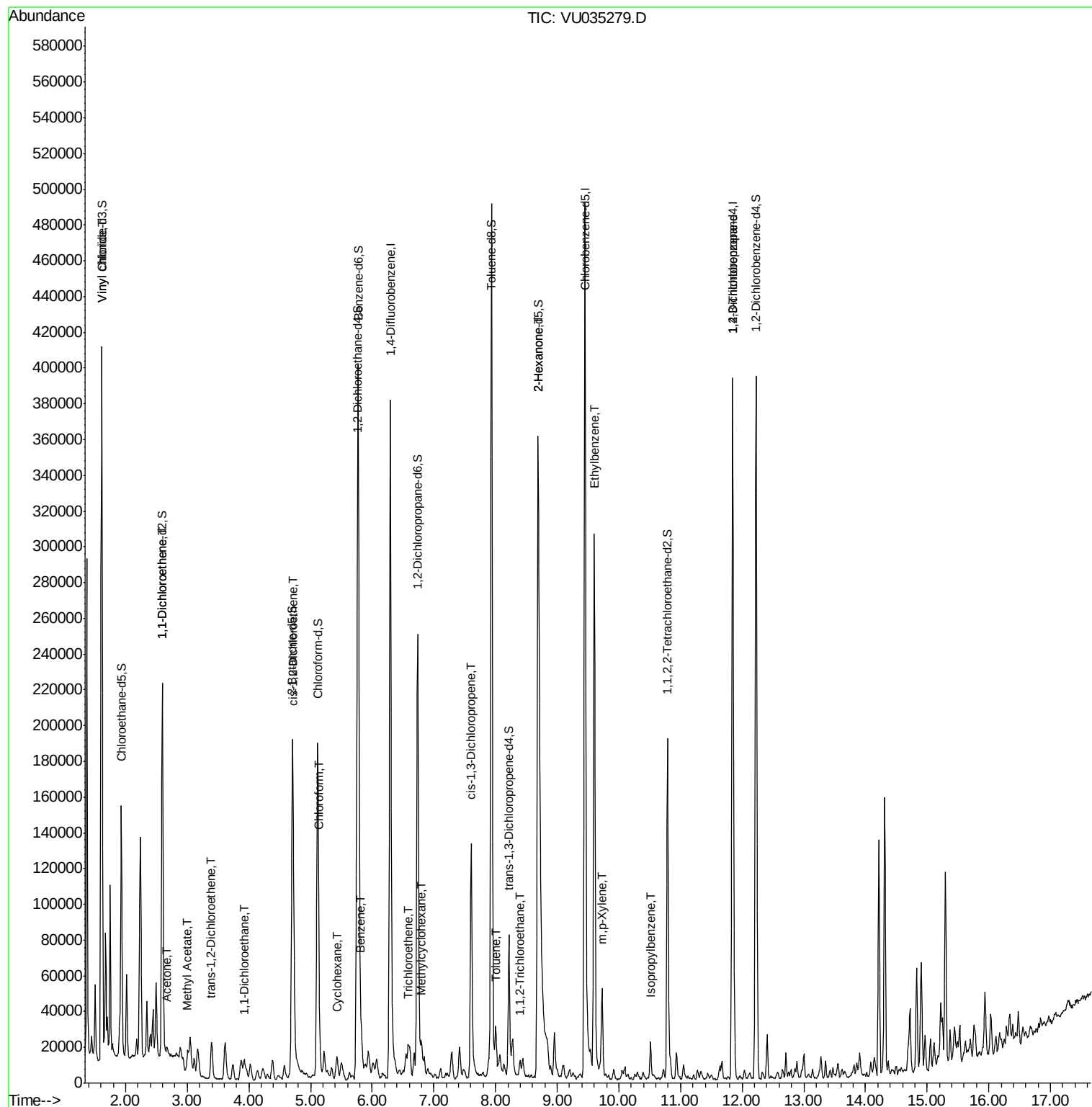
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.73	106	12890	0.292	ug/L	98
56) Isopropylbenzene	10.51	105	13750	0.119	ug/L	97
59) 1,2,3-Trichloropropane	11.84	75	15486	0.940	ug/L	94

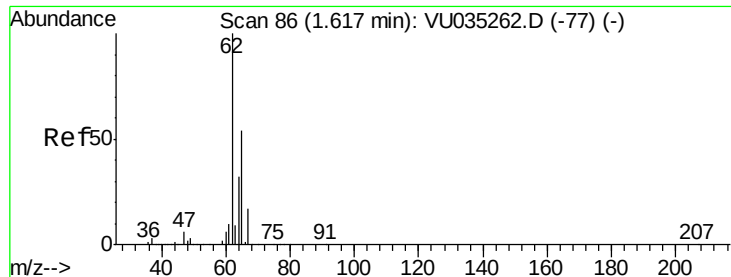
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU101819\
Data File : VU035279.D
Acq On : 18 Oct 2019 20:21
Operator : JC/SP
Sample : K5419-11
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Oct 19 03:43:00 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Oct 19 03:38:09 2019
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 1.522 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU035279.D

Acq: 18 Oct 2019 20:21

Instrument :

MSVOA_U

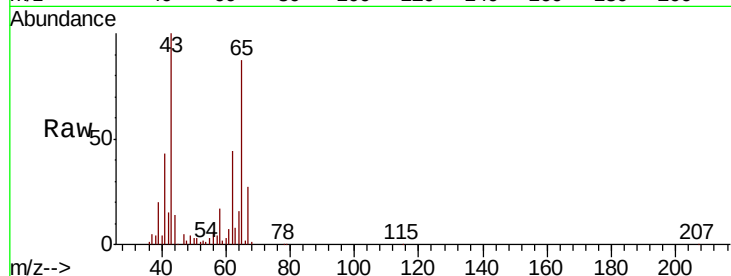
ClientSampleId :

Tot Ion: 62 Resp: 42062

Ion Ratio Lower Upper

62 100

64 37.4 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VU035279.D (-301) (-)

Ion 64.10 (63.80 to 64.80): VU035279.D (-301) (-)

1.62

40000

30000

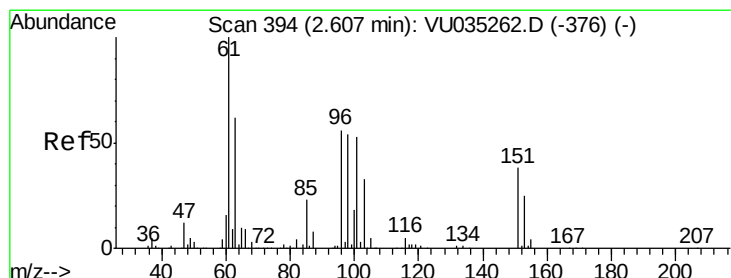
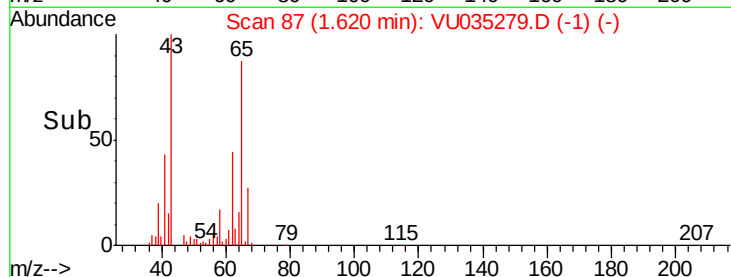
20000

10000

0

Time-->

1.55 1.60 1.65 1.70



#12

1,1-Dichloroethene

Concen: 0.080 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.01 min

Lab File: VU035279.D

Acq: 18 Oct 2019 20:21

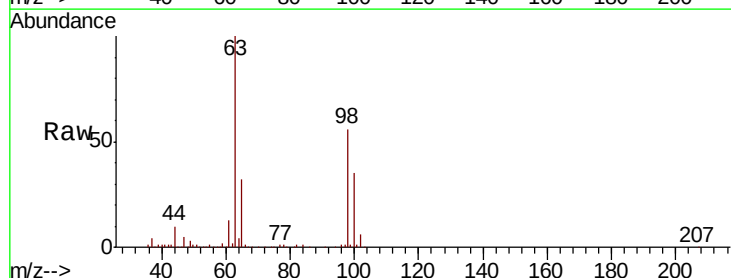
Tgt Ion: 96 Resp: 1628

Ion Ratio Lower Upper

96 100

61 1261.7 120.6 224.0#

63 10093.5 86.8 161.2#



Abundance Ion 96.00 (95.70 to 96.70): VU035279.D (-301) (-)

Ion 61.05 (60.75 to 61.75): VU035279.D (-301) (-)

Ion 63.00 (62.70 to 63.70): VU035279.D (-301) (-)

100000

80000

60000

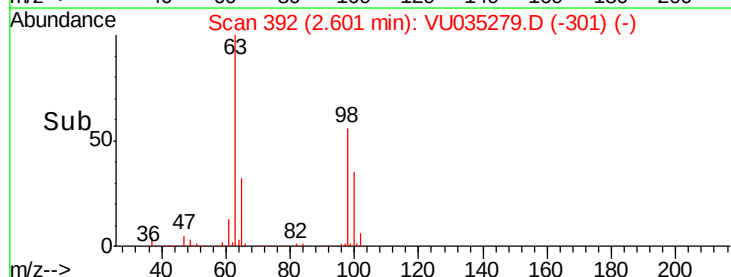
40000

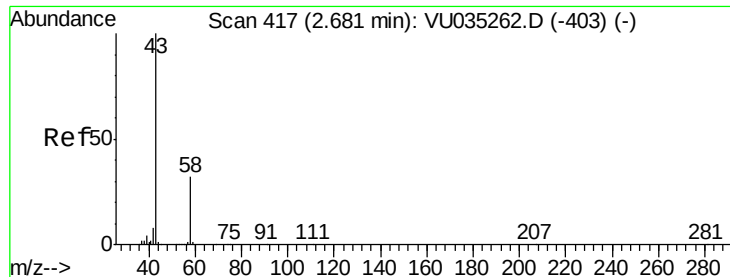
20000

0

Time-->

2.55 2.60 2.65





#13

Acetone

Concen: 1.709 ug/L

RT: 2.67 min Scan# 415

Delta R.T. -0.01 min

Lab File: VU035279.D

Acq: 18 Oct 2019 20:21

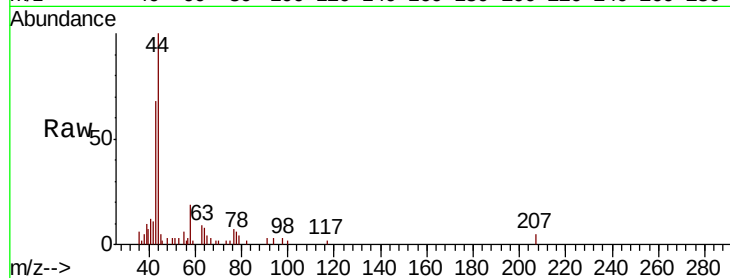
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 6637

Ion Ratio Lower Upper

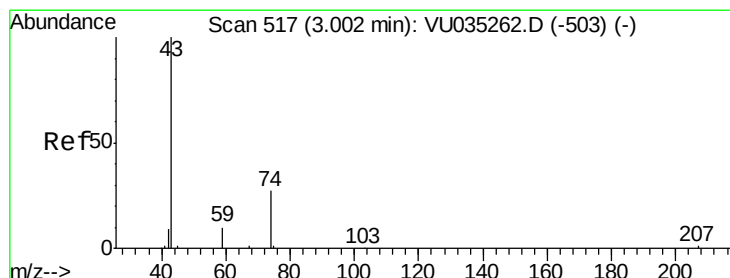
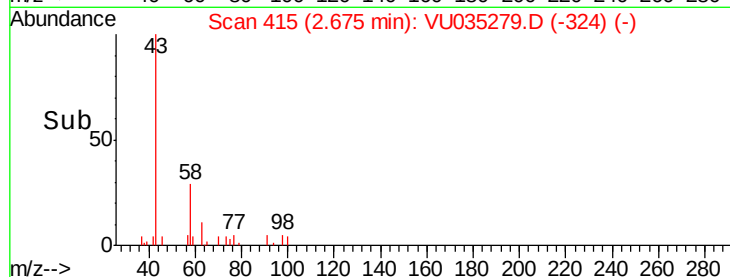
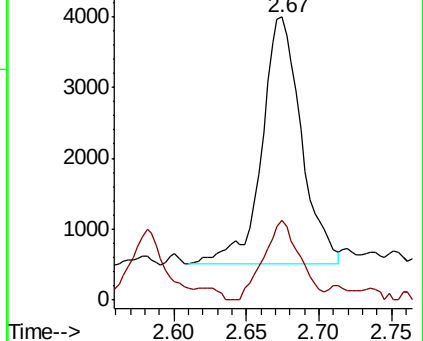
43 100

58 29.4 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU035279.D (-324) (-)

Ion 58.05 (57.75 to 58.75): VU035279.D (-324) (-)



#15

Methyl Acetate

Concen: 0.174 ug/L

RT: 2.99 min Scan# 514

Delta R.T. -0.01 min

Lab File: VU035279.D

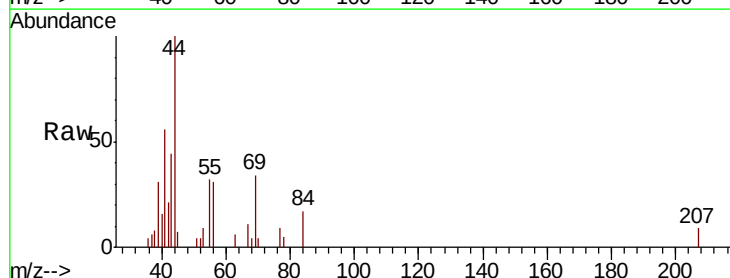
Acq: 18 Oct 2019 20:21

Tgt Ion: 43 Resp: 1687

Ion Ratio Lower Upper

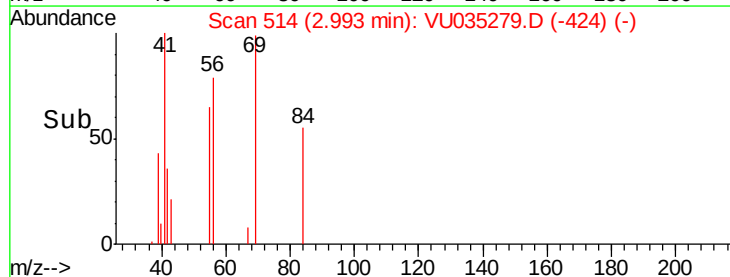
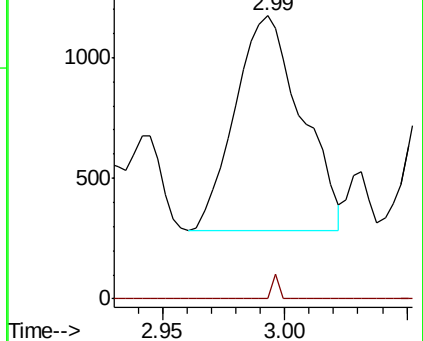
43 100

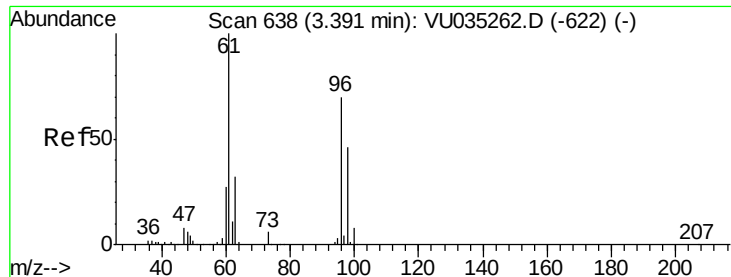
74 1.2 20.3 30.5#



Abundance Ion 43.05 (42.75 to 43.75): VU035279.D (-424) (-)

Ion 74.05 (73.75 to 74.75): VU035279.D (-424) (-)





#18

trans-1,2-Dichloroethene

Concen: 0.153 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.00 min

Lab File: VU035279.D

Acq: 18 Oct 2019 20:21

Instrument :

MSVOA_U

ClientSampled :

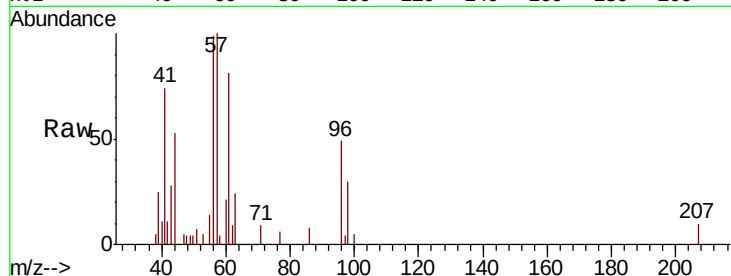
Tot Ion: 96 Resp: 3390

Ion Ratio Lower Upper

96 100

61 165.0 93.0 172.6

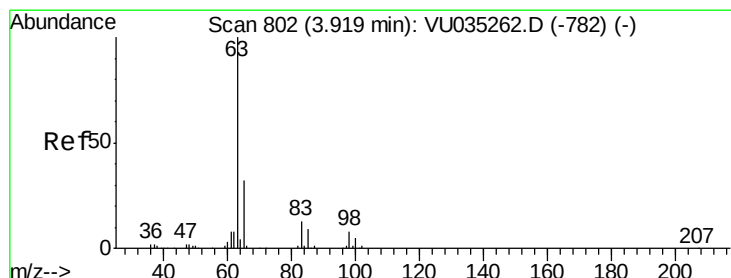
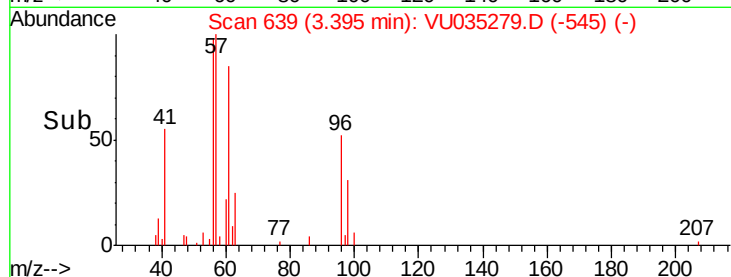
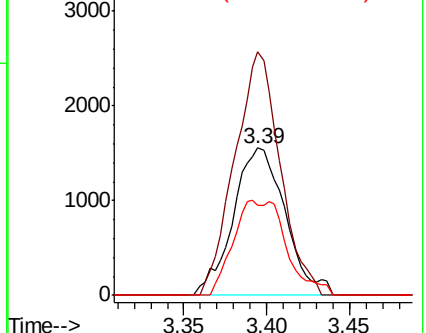
98 60.8 43.7 81.1



Abundance Ion 96.00 (95.70 to 96.70): VU035279.D (-545) (-)

Ion 61.05 (60.75 to 61.75): VU035279.D (-545) (-)

Ion 97.95 (97.65 to 98.65): VU035279.D (-545) (-)



#19

1,1-Dichloroethane

Concen: 0.277 ug/L

RT: 3.92 min Scan# 803

Delta R.T. 0.00 min

Lab File: VU035279.D

Acq: 18 Oct 2019 20:21

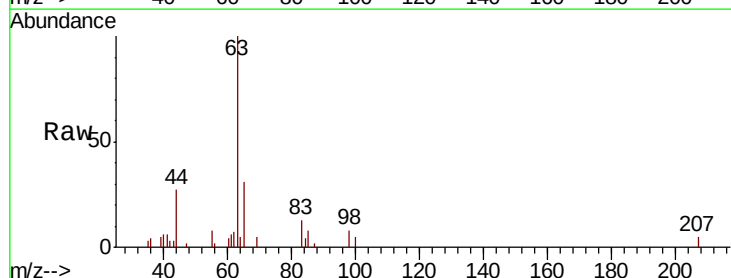
Tgt Ion: 63 Resp: 11087

Ion Ratio Lower Upper

63 100

65 30.8 22.4 41.6

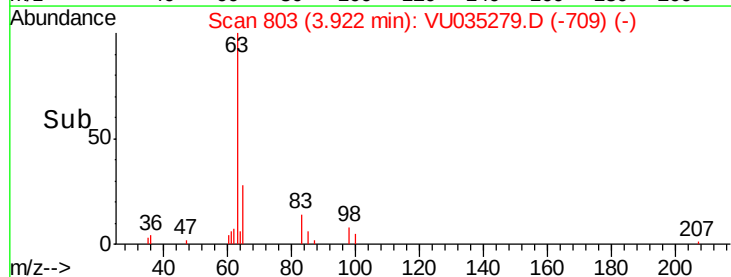
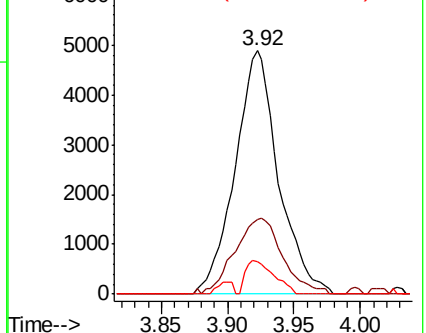
83 13.2 9.3 17.3

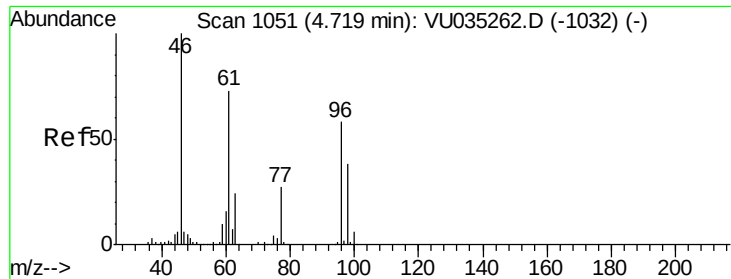


Abundance Ion 63.10 (62.80 to 63.80): VU035279.D (-709) (-)

Ion 65.10 (64.80 to 65.80): VU035279.D (-709) (-)

Ion 83.05 (82.75 to 83.75): VU035279.D (-709) (-)





#22

cis-1,2-Dichloroethene

Concen: 0.649 ug/L

RT: 4.72 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VU035279.D

Acq: 18 Oct 2019 20:21

Instrument :

MSVOA_U

ClientSampleId :

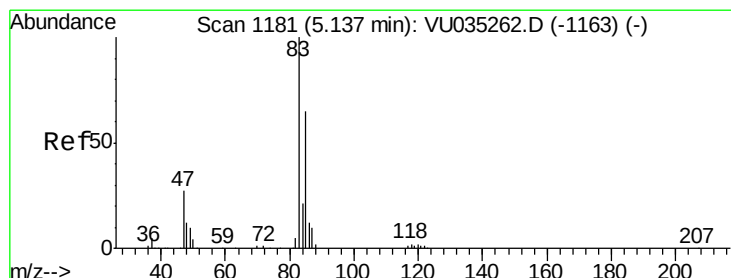
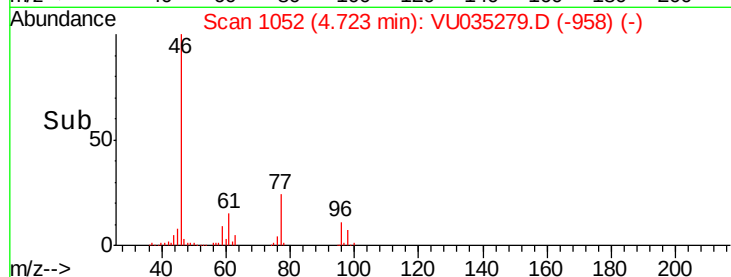
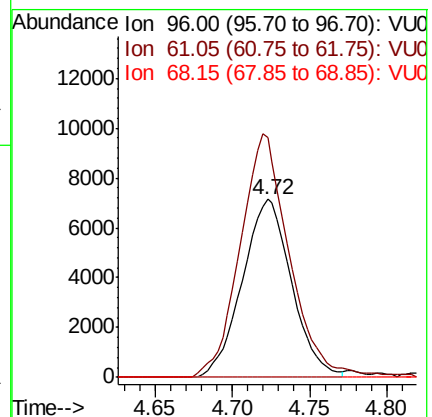
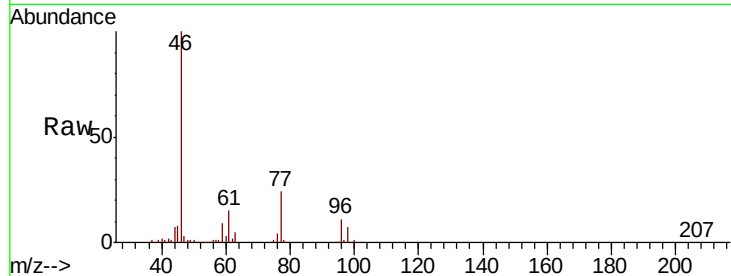
Tot Ion: 96 Resp: 15842

Ion Ratio Lower Upper

96 100

61 134.5 89.7 166.5

68 0.0 0.0 0.0



#25

Chloroform

Concen: 0.215 ug/L

RT: 5.14 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU035279.D

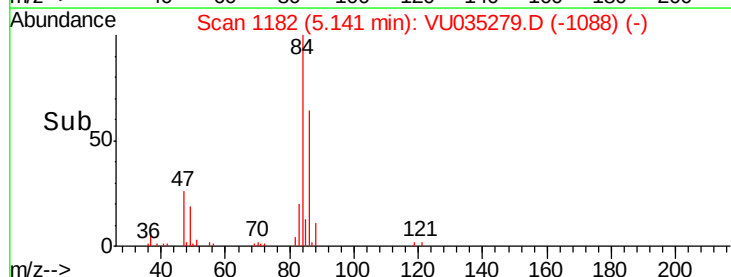
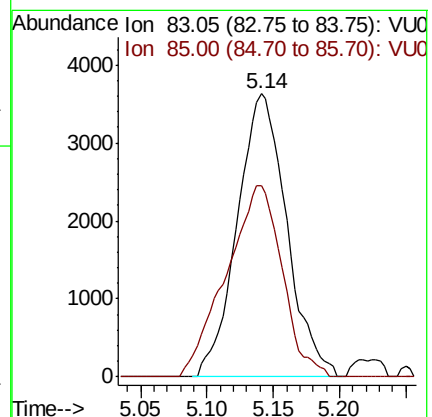
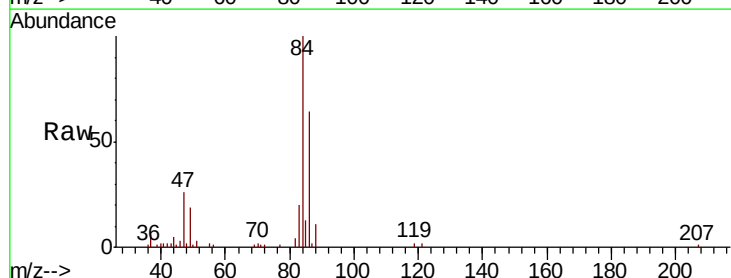
Acq: 18 Oct 2019 20:21

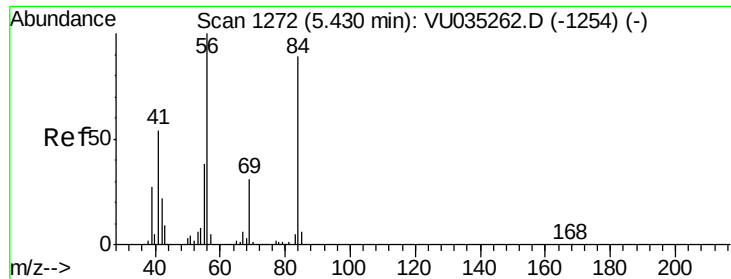
Tgt Ion: 83 Resp: 9434

Ion Ratio Lower Upper

83 100

85 67.7 45.1 83.9

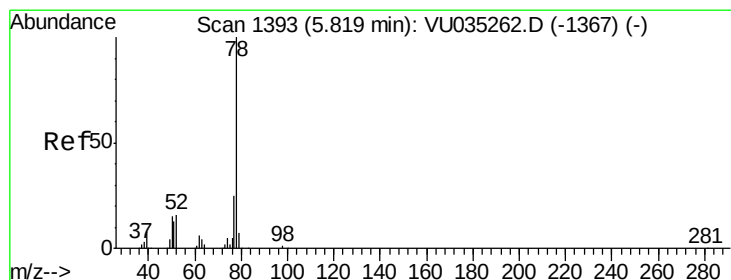
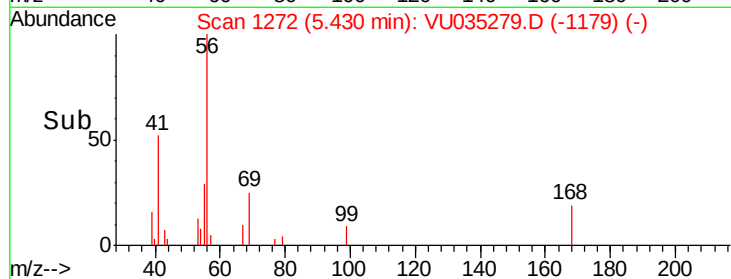
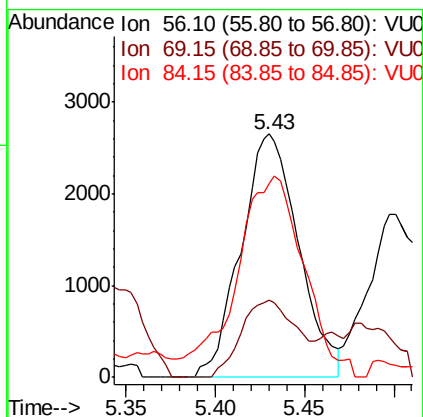
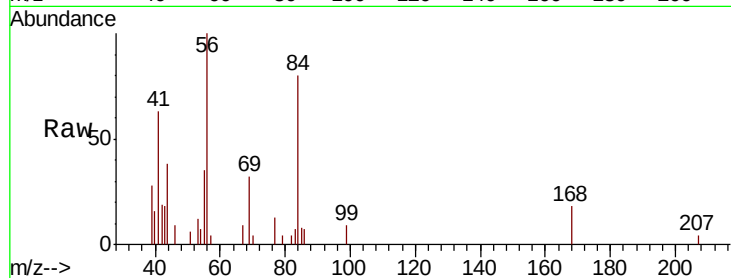




#30
Cyclohexane
Concen: 0.151 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU035279.D
Acq: 18 Oct 2019 20:21

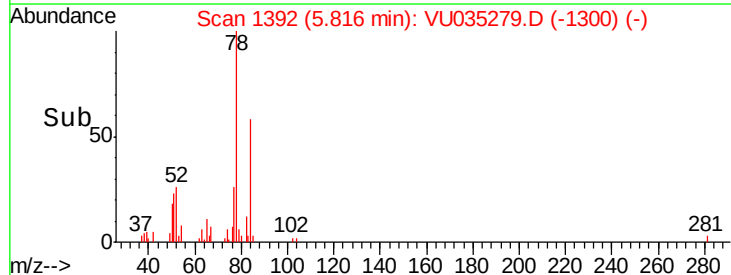
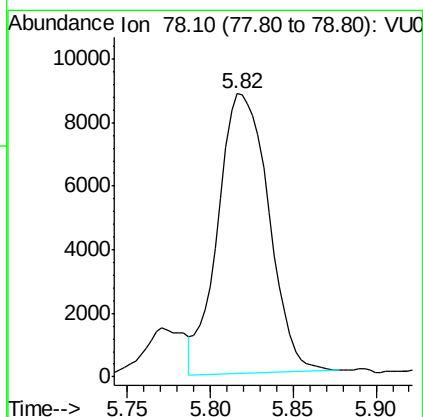
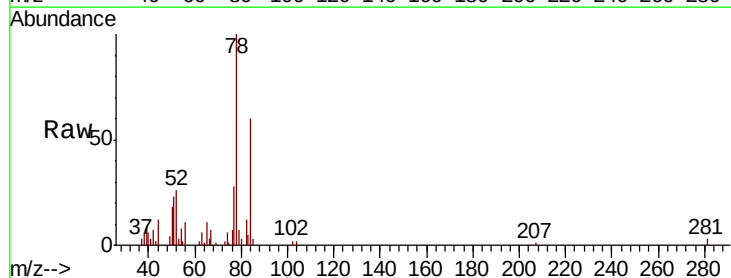
Instrument :
MSVOA_U
ClientSampleId :

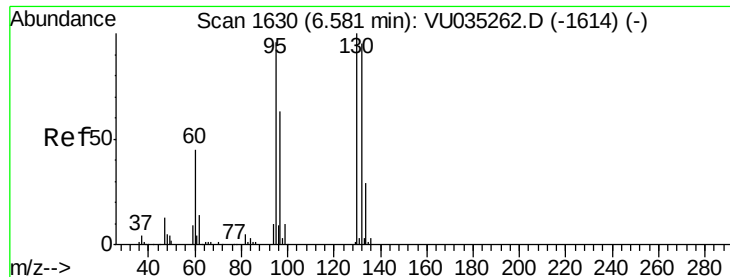
Tot Ion: 56 Resp: 5997
Ion Ratio Lower Upper
56 100
69 31.1 24.6 36.8
84 96.5 71.5 107.3



#33
Benzene
Concen: 0.200 ug/L
RT: 5.82 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VU035279.D
Acq: 18 Oct 2019 20:21

Tgt Ion: 78 Resp: 18673





#34

Trichloroethene

Concen: 0.167 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU035279.D

Acq: 18 Oct 2019 20:21

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 4172

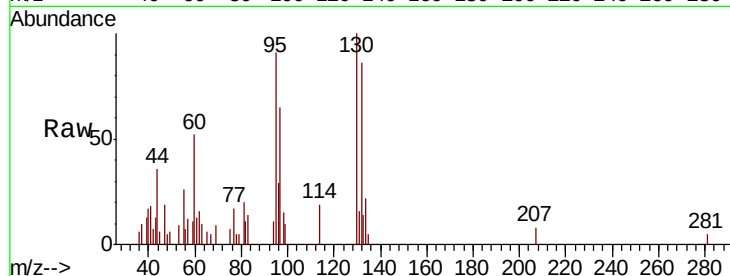
Ion Ratio Lower Upper

95 100

97 70.8 46.6 86.6

132 94.1 68.7 127.7

130 109.7 73.9 137.3

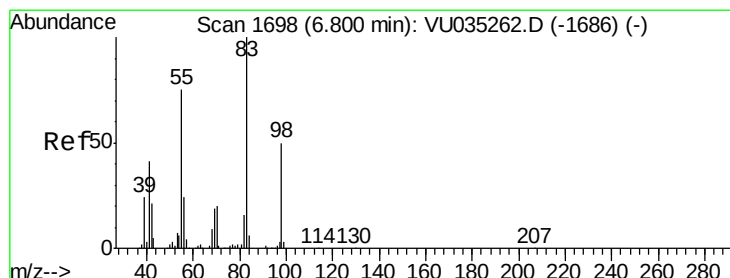
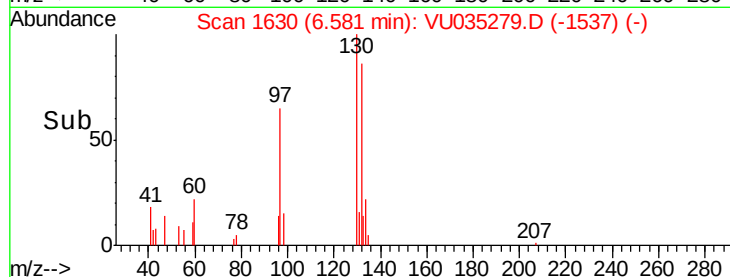
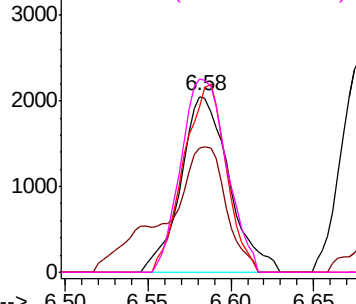


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.161 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VU035279.D

Acq: 18 Oct 2019 20:21

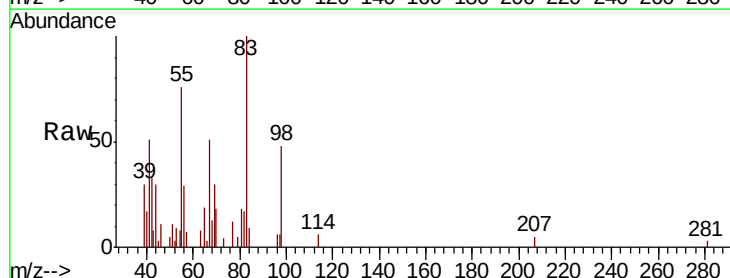
Tgt Ion: 83 Resp: 6732

Ion Ratio Lower Upper

83 100

55 104.0 60.4 90.6#

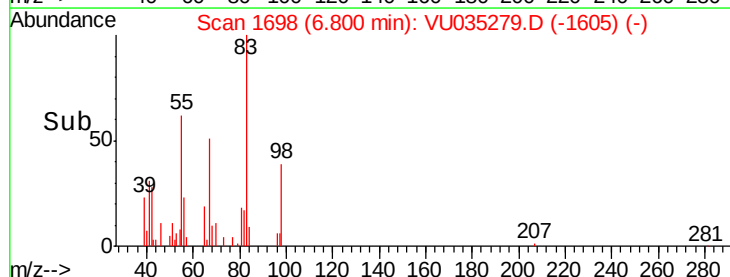
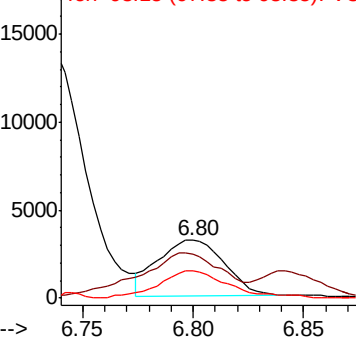
98 51.1 39.5 59.3

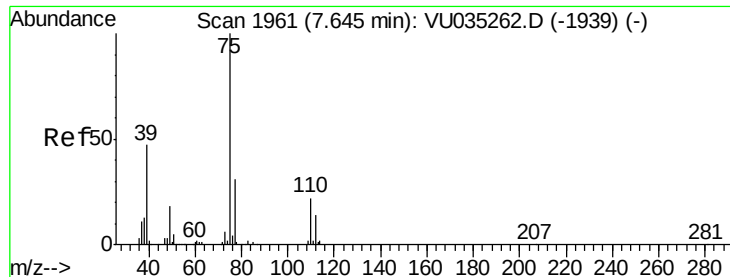


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#39

cis-1,3-Dichloropropene

Concen: 0.080 ug/L

RT: 7.61 min Scan# 1949

Delta R.T. -0.04 min

Lab File: VU035279.D

Acq: 18 Oct 2019 20:21

Instrument :

MSVOA_U

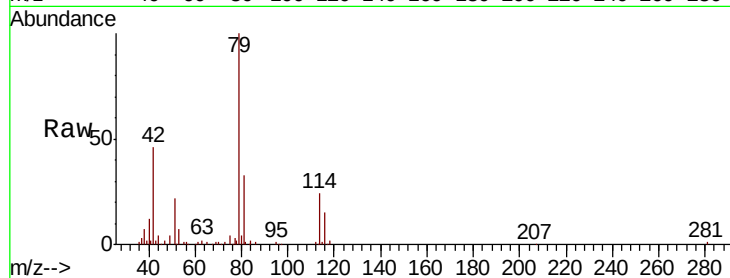
ClientSampleId :

Tot Ion: 75 Resp: 3150

Ion Ratio Lower Upper

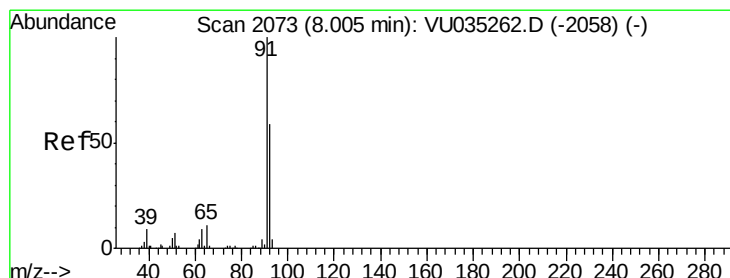
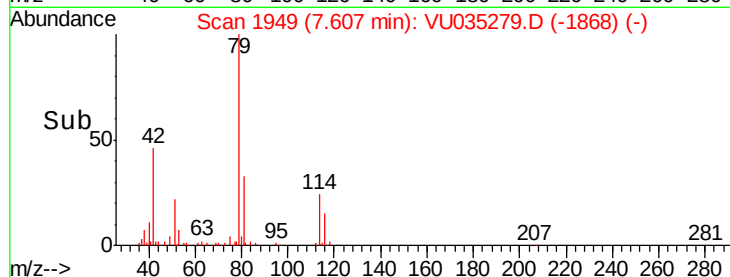
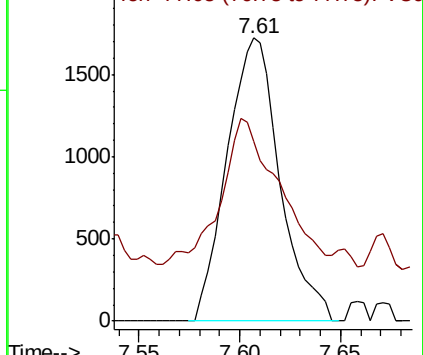
75 100

77 63.3 22.7 42.1#



Abundance Ion 75.05 (74.75 to 75.75): VU035262.D (-1939) (-)

Ion 77.05 (76.75 to 77.75): VU035279.D (-1868) (-)



#42

Toluene

Concen: 0.155 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VU035279.D

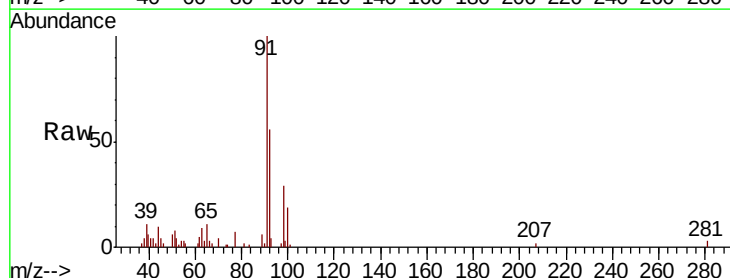
Acq: 18 Oct 2019 20:21

Tgt Ion: 91 Resp: 15966

Ion Ratio Lower Upper

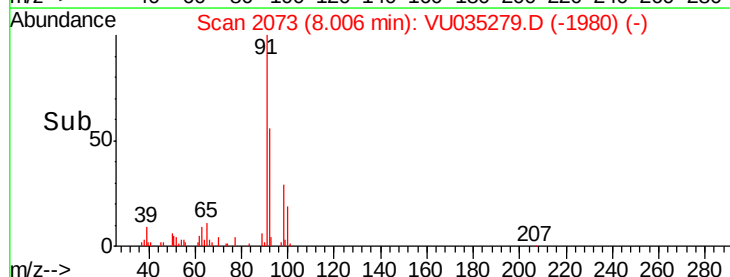
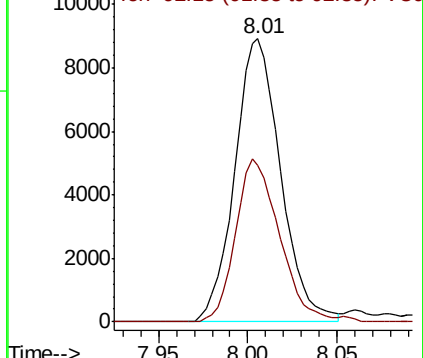
91 100

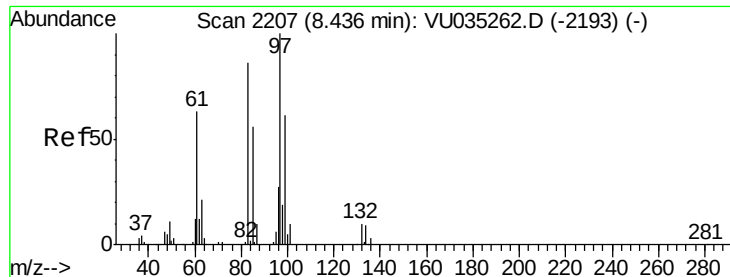
92 55.5 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VU035262.D (-2058) (-)

Ion 92.15 (91.85 to 92.85): VU035279.D (-1980) (-)

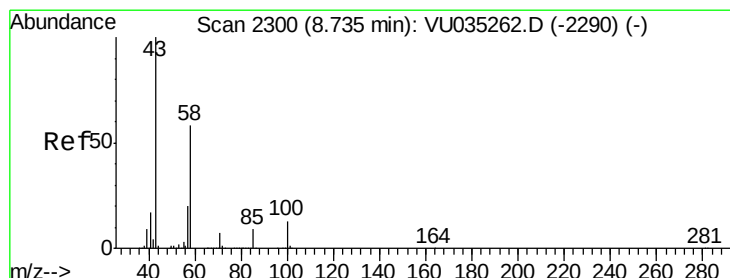
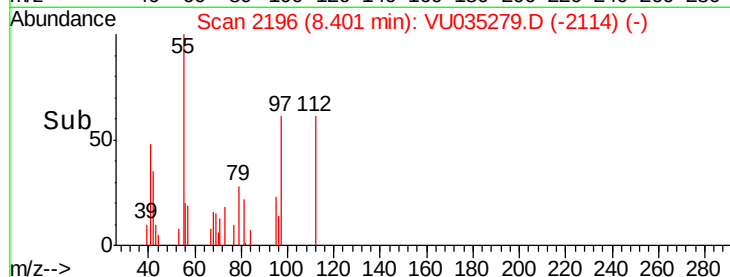
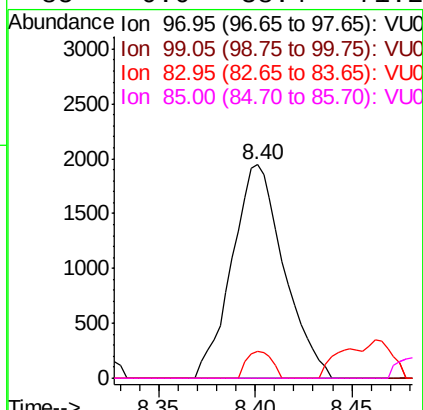
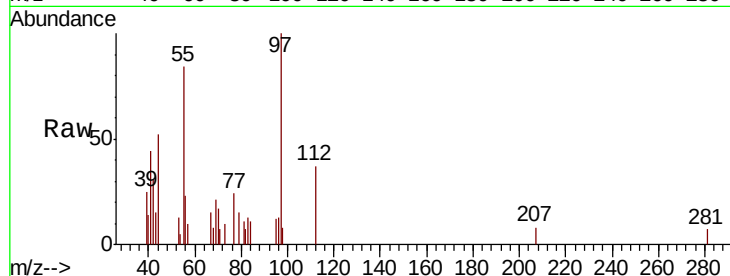




#45
 1,1,2-Trichloroethane
 Concen: 0.206 ug/L
 RT: 8.40 min Scan# 2196
 Delta R.T. -0.04 min
 Lab File: VU035279.D
 Acq: 18 Oct 2019 20:21

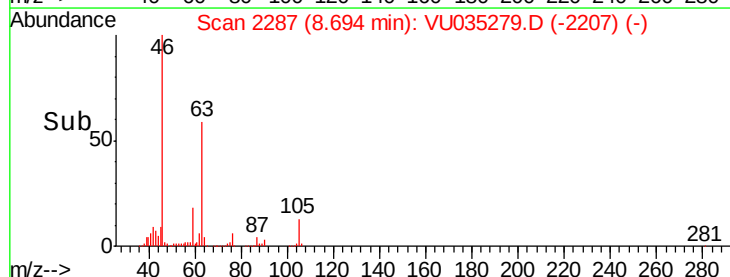
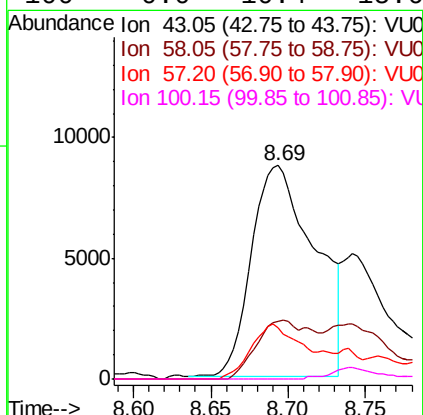
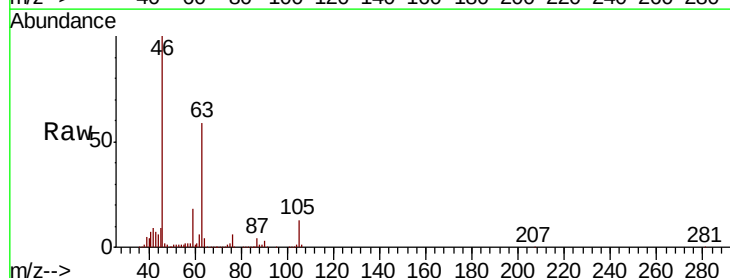
Instrument :
 MSVOA_U
 ClientSampleId :

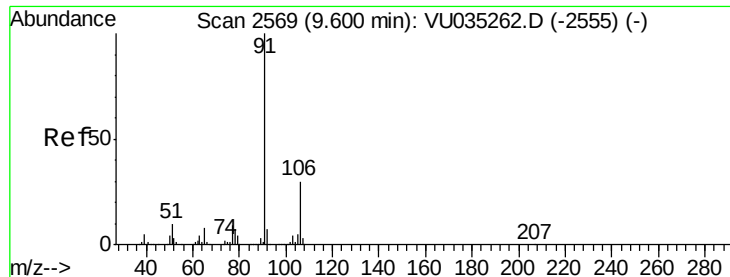
Tot Ion:	97	Resp:	3621
Ion	Ratio	Lower	Upper
97	100		
99	0.0	42.9	79.7#
83	12.7	60.4	112.2#
85	0.0	38.4	71.2#



#48
 2-Hexanone
 Concen: 2.215 ug/L
 RT: 8.69 min Scan# 2287
 Delta R.T. -0.04 min
 Lab File: VU035279.D
 Acq: 18 Oct 2019 20:21

Tgt Ion:	43	Resp:	24808
Ion	Ratio	Lower	Upper
43	100		
58	24.0	45.1	67.7#
57	23.3	16.0	24.0
100	0.0	10.4	15.6#





#52

Ethylbenzene

Concen: 1.996 ug/L

RT: 9.60 min Scan# 2570

Delta R.T. 0.00 min

Lab File: VU035279.D

Acq: 18 Oct 2019 20:21

Instrument :

MSVOA_U

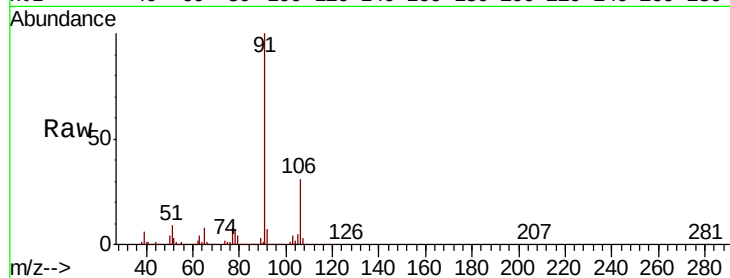
ClientSampleId :

Tot Ion: 91 Resp: 233444

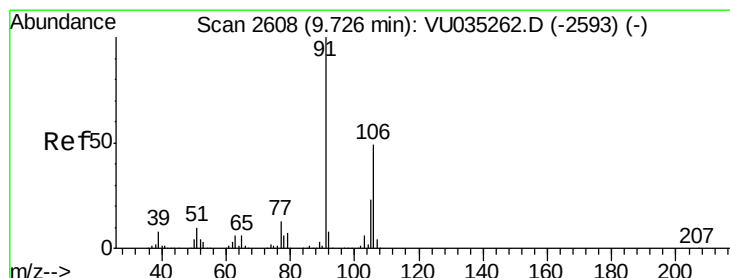
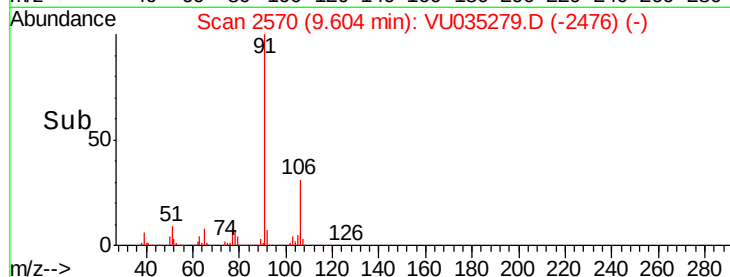
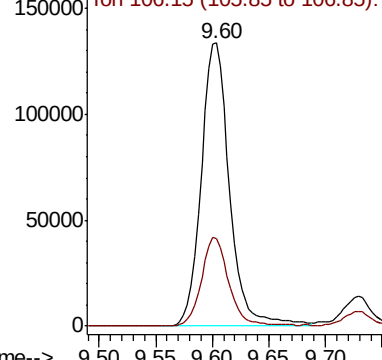
Ion Ratio Lower Upper

91 100

106 30.9 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): VU035279.D (-2476) (-)



#53

m,p-Xylene

Concen: 0.292 ug/L

RT: 9.73 min Scan# 2609

Delta R.T. 0.00 min

Lab File: VU035279.D

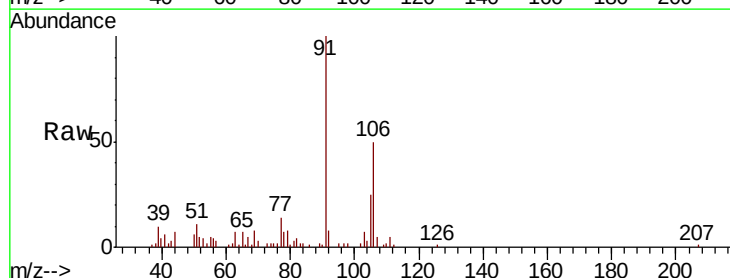
Acq: 18 Oct 2019 20:21

Tgt Ion: 106 Resp: 12890

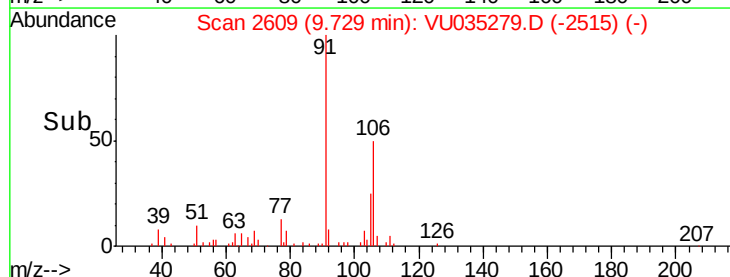
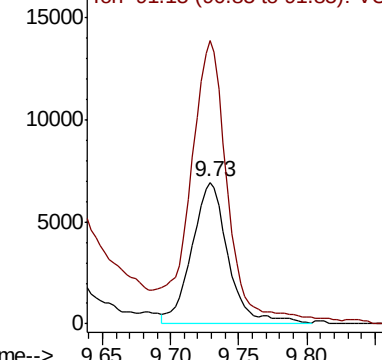
Ion Ratio Lower Upper

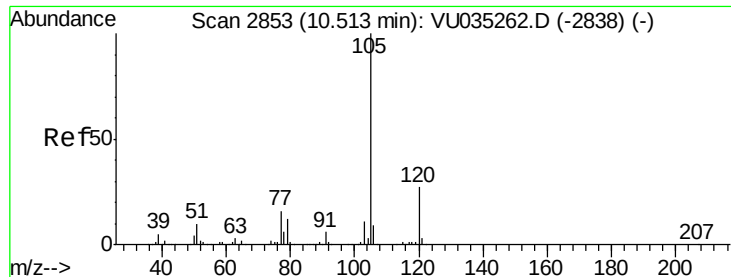
106 100

91 199.8 142.0 263.6



Abundance Ion 106.15 (105.85 to 106.85): VU035279.D (-2515) (-)





#56

Isopropylbenzene

Concen: 0.119 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VU035279.D

Acq: 18 Oct 2019 20:21

Instrument :

MSVOA_U

ClientSampled :

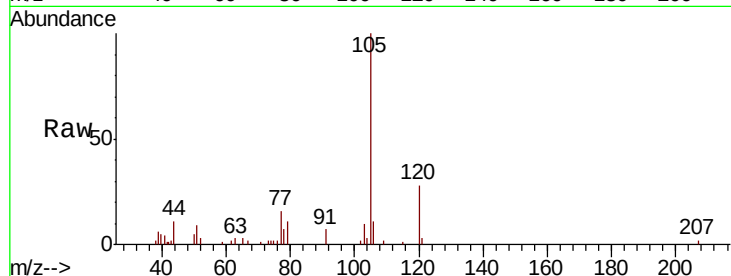
Tot Ion:105 Resp: 13750

Ion Ratio Lower Upper

105 100

120 27.1 21.0 31.6

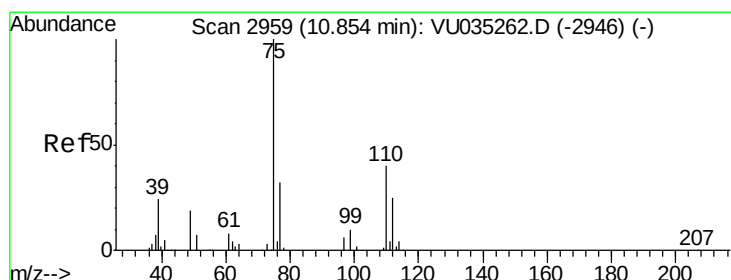
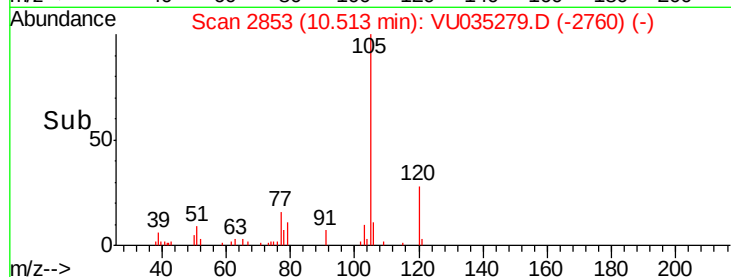
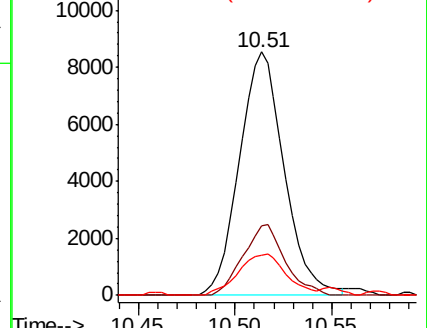
77 18.1 12.6 19.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VU



#59

1,2,3-Trichloropropane

Concen: 0.940 ug/L

RT: 11.84 min Scan# 3267

Delta R.T. 0.99 min

Lab File: VU035279.D

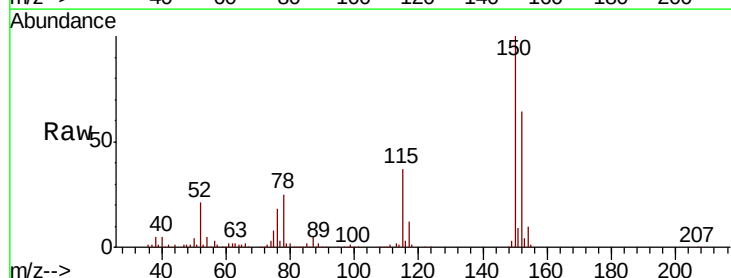
Acq: 18 Oct 2019 20:21

Tgt Ion: 75 Resp: 15486

Ion Ratio Lower Upper

75 100

77 35.8 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU

