

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102219\
 Data File : VU035378.D
 Acq On : 22 Oct 2019 21:17
 Operator : JC/SP
 Sample : K5461-02
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 23 08:06:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 23 08:02:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	260462	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	259717	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	88834	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	119912	7.55	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	151.00%#
7) Chloroethane-d5	1.93	69	100724	6.94	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	138.80%#
11) 1,1-Dichloroethene-d2	2.59	63	155592	5.30	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	106.00%
20) 2-Butanone-d5	4.71	46	266004	58.28	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	116.56%
24) Chloroform-d	5.11	84	166840	5.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	115.00%
26) 1,2-Dichloroethane-d4	5.75	65	97812	6.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	121.60%
32) Benzene-d6	5.77	84	363615	6.12	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	122.40%
36) 1,2-Dichloropropane-d6	6.74	67	120515	6.39	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	127.80%
41) Toluene-d8	7.93	98	310907	5.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.40%
43) trans-1,3-Dichloropropene-	8.22	79	41961	4.59	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.80%
46) 2-Hexanone-d5	8.69	63	190992	47.32	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.64%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	92516	5.50	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.00%
64) 1,2-Dichlorobenzene-d4	12.22	152	94850	5.86	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	117.20%

Target Compounds

					Ovalue
5) Vinyl chloride	1.62	62	509313	22.553	ug/L 100
8) Chloroethane	1.96	64	1869	0.128	ug/L 83
12) 1,1-Dichloroethene	2.61	96	7941	0.475	ug/L # 1
13) Acetone	2.67	43	28044	8.834	ug/L 94
14) Carbon disulfide	2.82	76	11253	0.213	ug/L # 93
16) Methylene chloride	3.08	84	2950	0.147	ug/L 86
17) Methyl tert-butyl Ether	3.43	73	350069	7.773	ug/L 98
18) trans-1,2-Dichloroethene	3.39	96	40526	2.244	ug/L 95
19) 1,1-Dichloroethane	3.92	63	87562	2.681	ug/L 100
21) 2-Butanone	4.78	43	299888	57.956	ug/L 96
22) cis-1,2-Dichloroethene	4.72	96	3011497	150.878	ug/L 97
25) Chloroform	5.14	83	14949	0.417	ug/L 99
30) Cyclohexane	5.43	56	2407	0.074	ug/L # 72
33) Benzene	5.82	78	53193	0.696	ug/L 100
34) Trichloroethene	6.58	95	1205406	58.673	ug/L 97
35) Methylcyclohexane	6.74	83	27411	0.798	ug/L # 18
39) cis-1,3-Dichloropropene	7.60	75	2874	0.089	ug/L # 64

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 23 08:02:08 2019
Response via : Initial Calibration

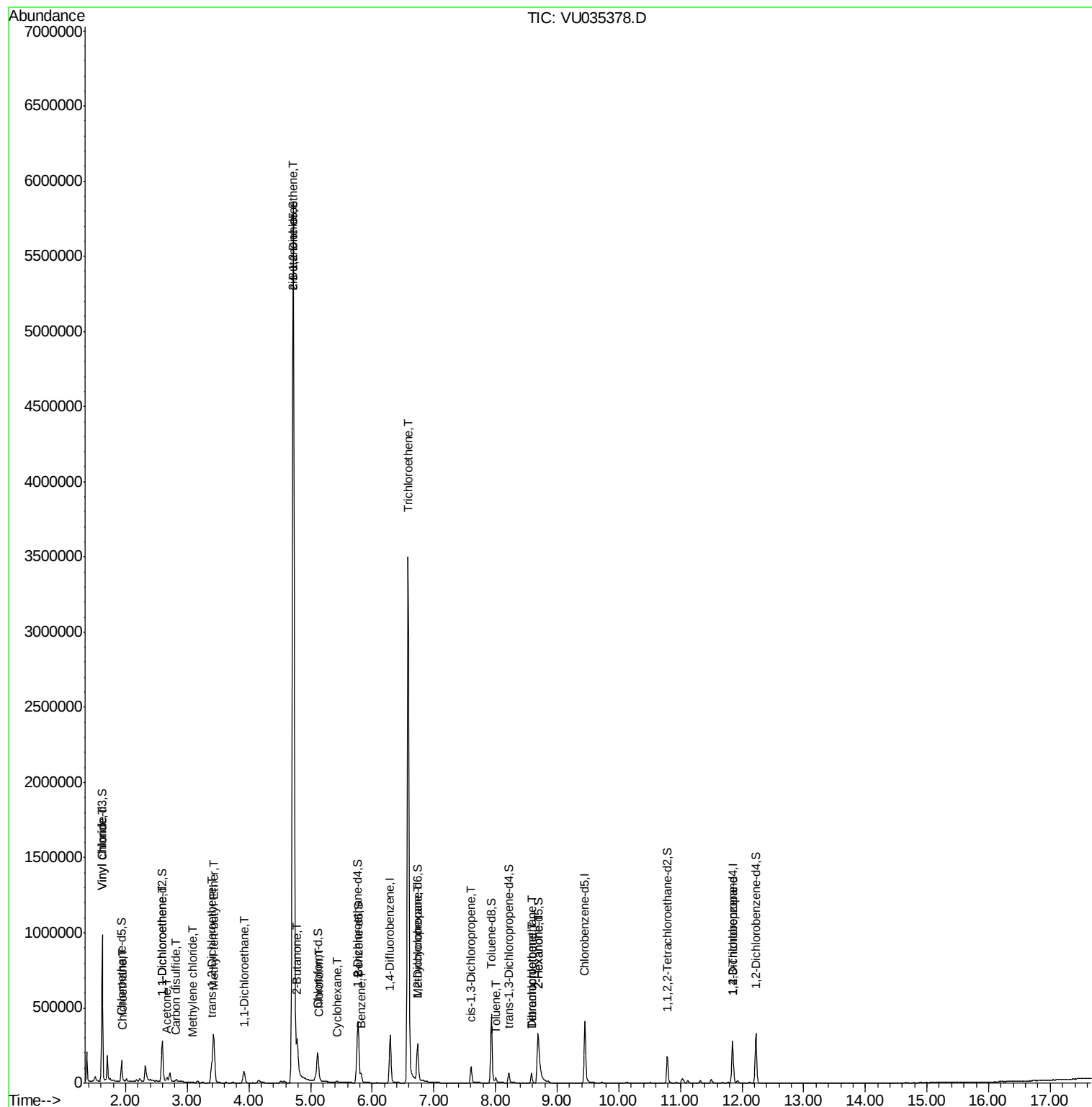
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.01	91	19046	0.226	ug/L	99
47) Tetrachloroethene	8.58	164	15264	0.892	ug/L	93
48) 2-Hexanone	8.69	43	20267	2.207	ug/L #	64
49) Dibromochloromethane	8.58	129	13621	0.746	ug/L #	11
59) 1,2,3-Trichloropropane	11.84	75	11058	0.818	ug/L #	88

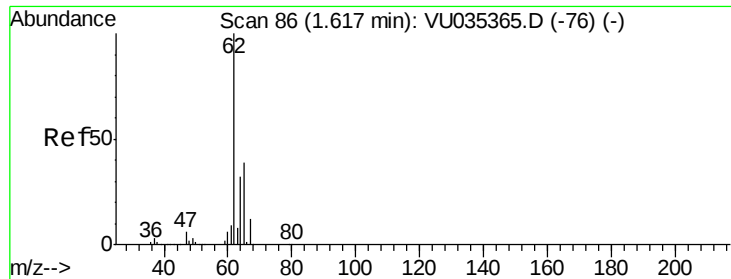
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 22.553 ug/L

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VU035378.D

Acq: 22 Oct 2019 21:17

Instrument :

MSVOA_U

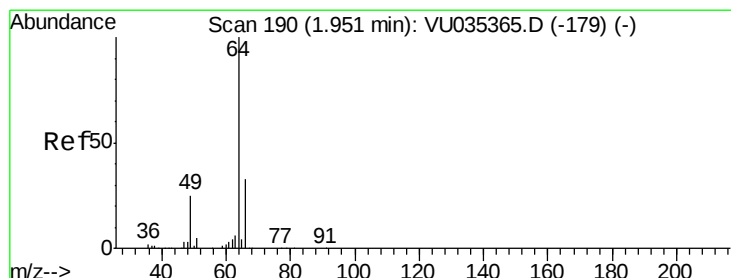
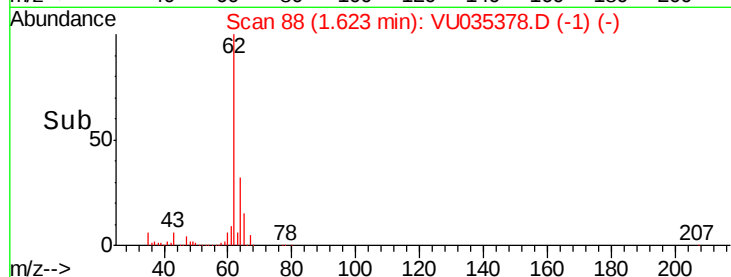
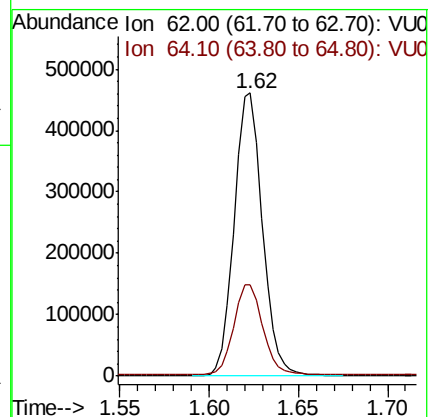
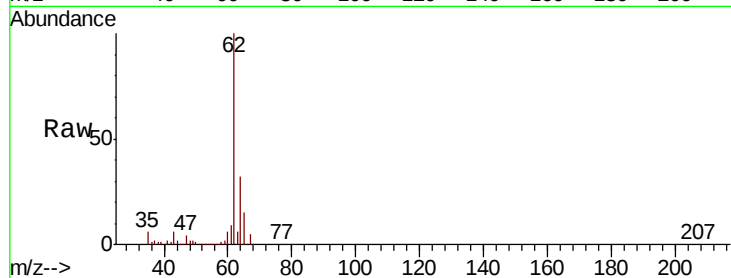
ClientSampled :

Tot Ion: 62 Resp: 509313

Ion Ratio Lower Upper

62 100

64 32.5 22.9 42.5



#8

Chloroethane

Concen: 0.128 ug/L

RT: 1.96 min Scan# 192

Delta R.T. 0.01 min

Lab File: VU035378.D

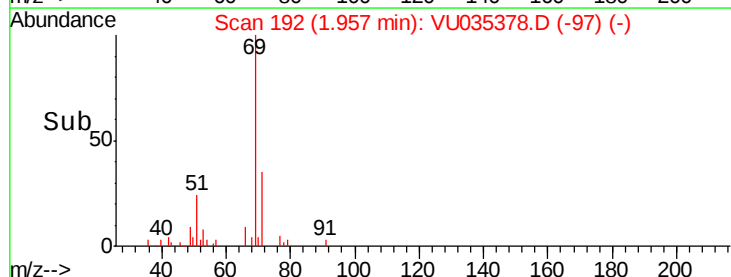
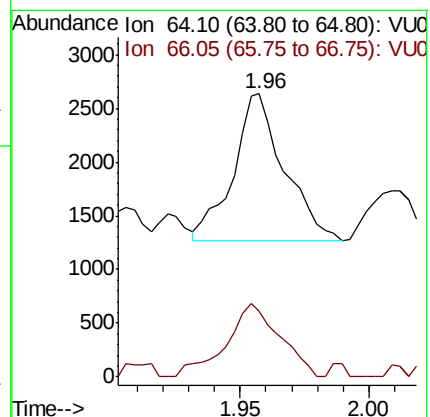
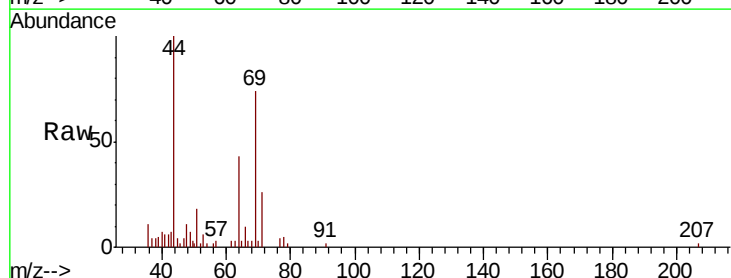
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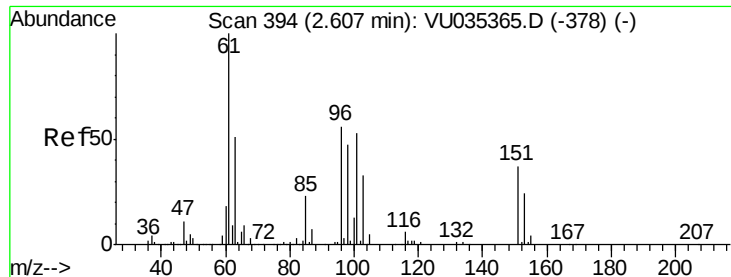
Tgt Ion: 64 Resp: 1869

Ion Ratio Lower Upper

64 100

66 23.1 22.7 42.1

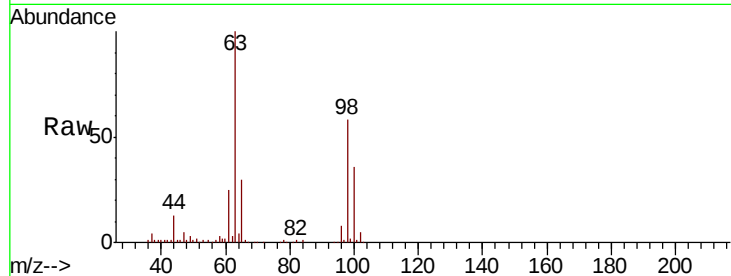




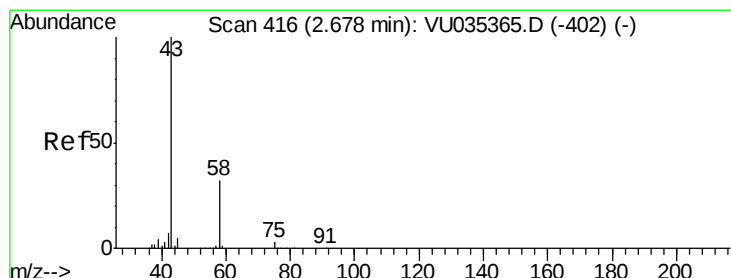
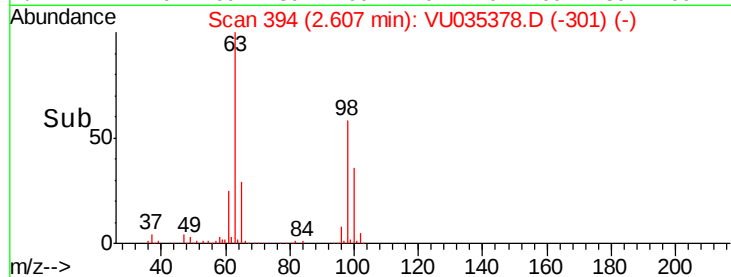
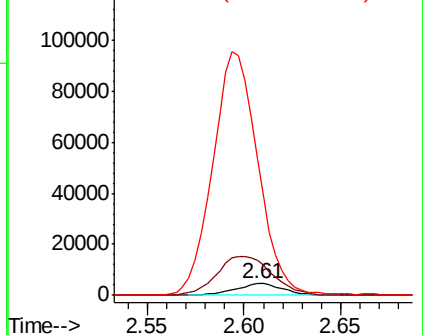
#12
 1,1-Dichloroethene
 Concen: 0.475 ug/L
 RT: 2.61 min Scan# 394
 Delta R.T. -0.00 min
 Lab File: VU035378.D
 Acq: 22 Oct 2019 21:17

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 96 Resp: 7941
 Ion Ratio Lower Upper
 96 100
 61 304.5 120.6 224.0#
 63 1204.7 86.8 161.2#

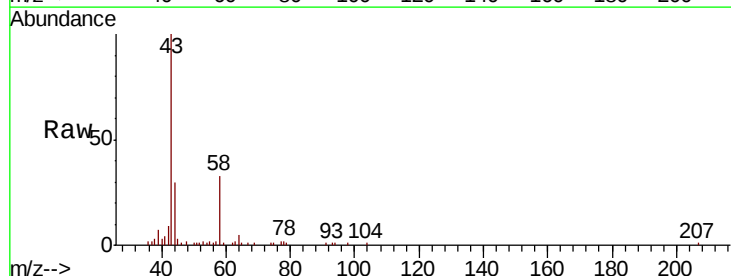


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 63.00 (62.70 to 63.70): VU0

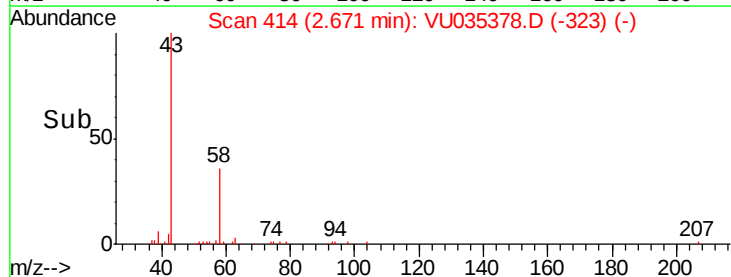
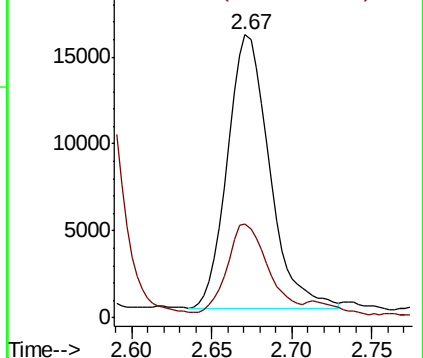


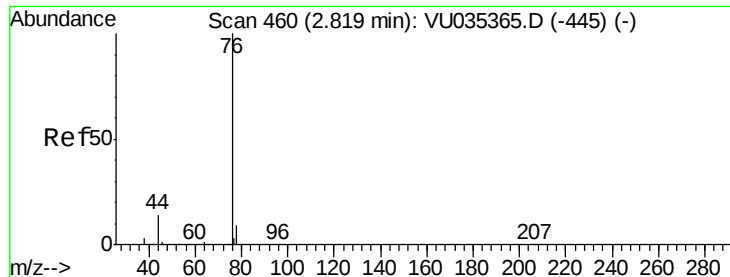
#13
 Acetone
 Concen: 8.834 ug/L
 RT: 2.67 min Scan# 414
 Delta R.T. -0.01 min
 Lab File: VU035378.D
 Acq: 22 Oct 2019 21:17

Tgt Ion: 43 Resp: 28044
 Ion Ratio Lower Upper
 43 100
 58 34.2 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 58.05 (57.75 to 58.75): VU0





#14

Carbon disulfide

Concen: 0.213 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU035378.D

Acq: 22 Oct 2019 21:17

Instrument :

MSVOA_U

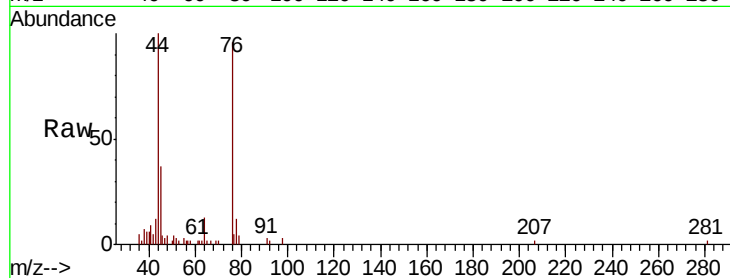
ClientSampleId :

Tot Ion: 76 Resp: 11253

Ion Ratio Lower Upper

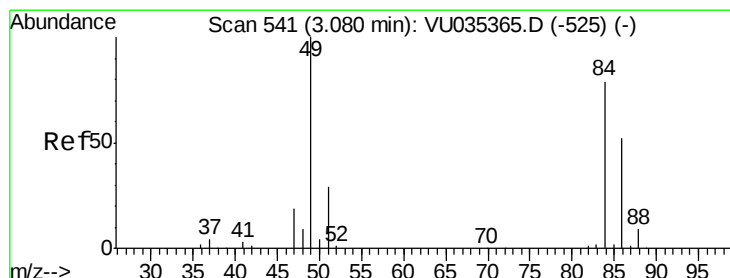
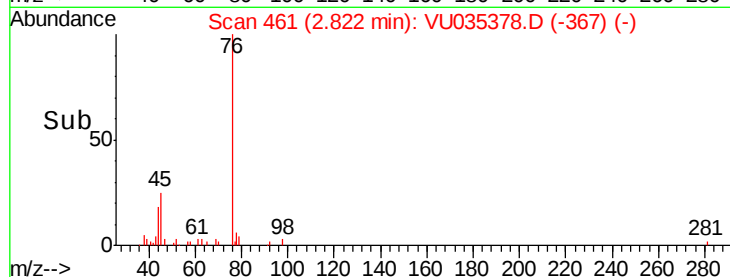
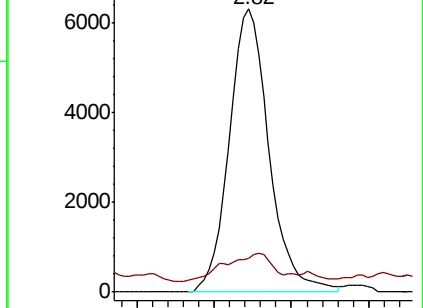
76 100

78 12.0 7.6 11.4#



Abundance Ion 76.05 (75.75 to 76.75): VU035378.D (-445) (-)

Ion 78.00 (77.70 to 78.70): VU035378.D (-445) (-)



#16

Methylene chloride

Concen: 0.147 ug/L

RT: 3.08 min Scan# 542

Delta R.T. 0.00 min

Lab File: VU035378.D

Acq: 22 Oct 2019 21:17

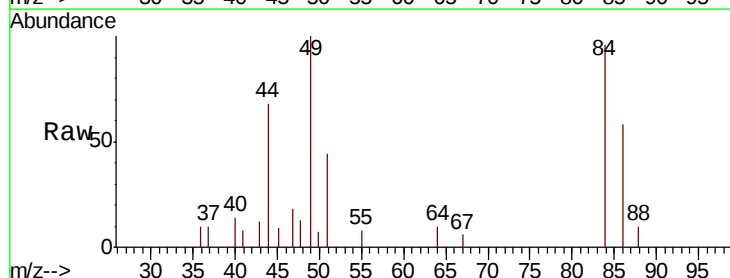
Tgt Ion: 84 Resp: 2950

Ion Ratio Lower Upper

84 100

86 60.3 45.4 84.2

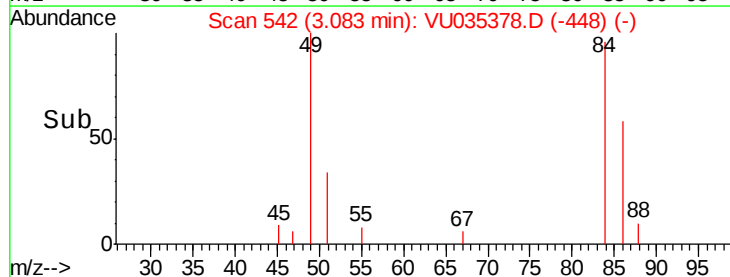
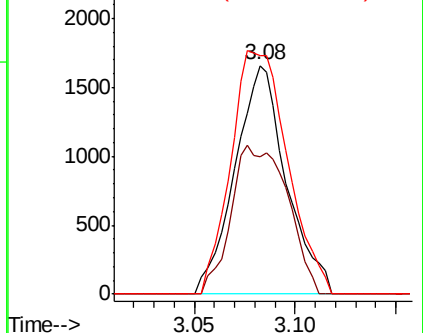
49 104.1 86.8 161.2

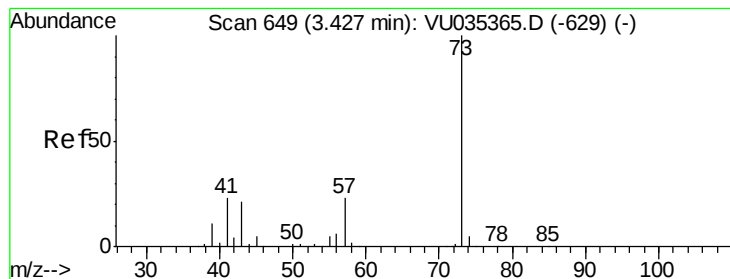


Abundance Ion 84.05 (83.75 to 84.75): VU035378.D (-448) (-)

Ion 86.00 (85.70 to 86.70): VU035378.D (-448) (-)

Ion 49.10 (48.80 to 49.80): VU035378.D (-448) (-)



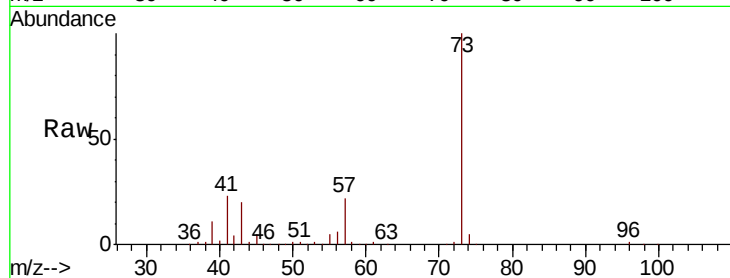


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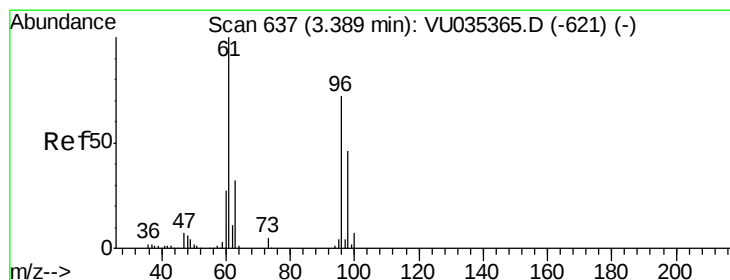
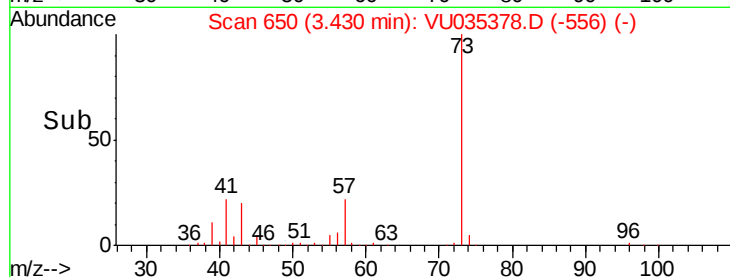
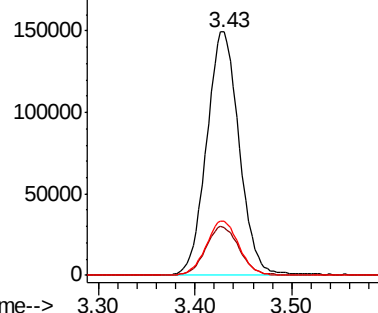
Methvl tert-butvl Ether
 Concen: 7.773 ug/L
 RT: 3.43 min Scan# 650
 Delta R.T. 0.00 min
 Lab File: VU035378.D
 Acq: 22 Oct 2019 21:17

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 73 Resp: 350069
 Ion Ratio Lower Upper
 73 100
 43 20.8 16.0 24.0
 57 22.6 17.4 26.2



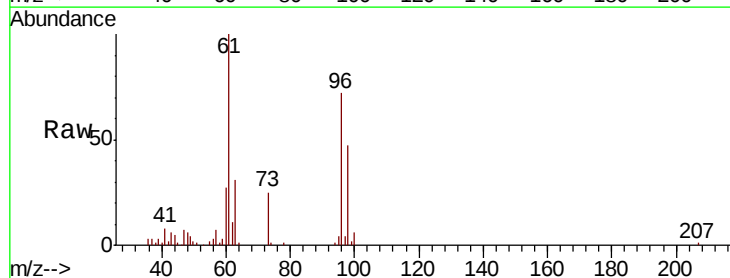
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



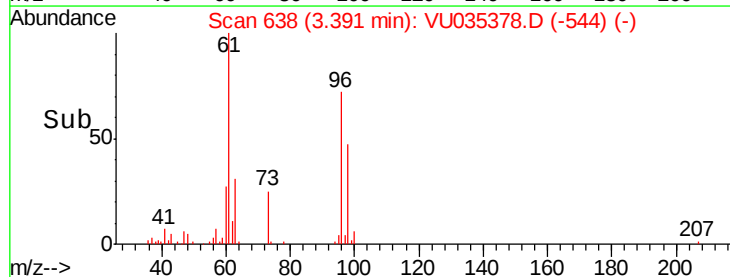
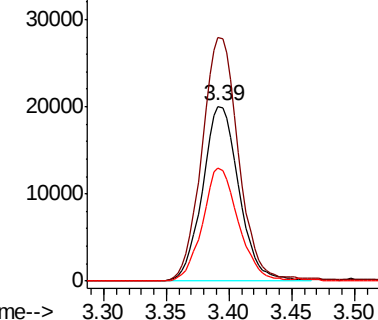
#18

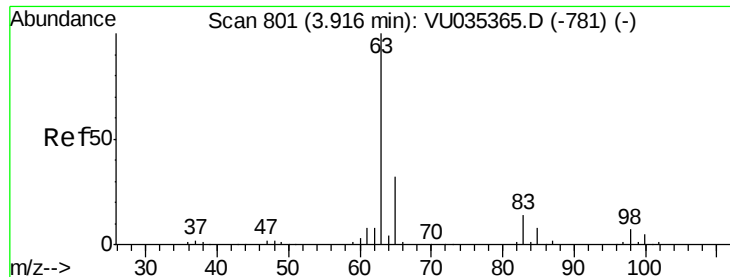
trans-1,2-Dichloroethene
 Concen: 2.244 ug/L
 RT: 3.39 min Scan# 638
 Delta R.T. 0.00 min
 Lab File: VU035378.D
 Acq: 22 Oct 2019 21:17

Tgt Ion: 96 Resp: 40526
 Ion Ratio Lower Upper
 96 100
 61 139.1 93.0 172.6
 98 64.8 43.7 81.1



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 97.95 (97.65 to 98.65): VU0

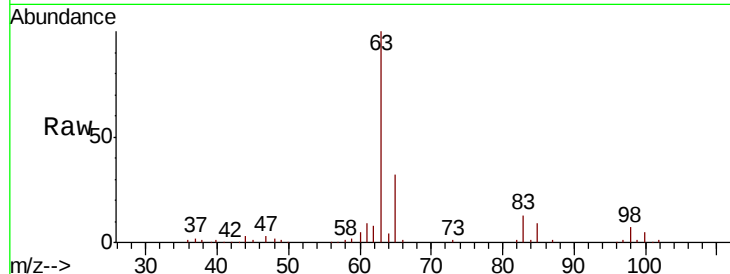




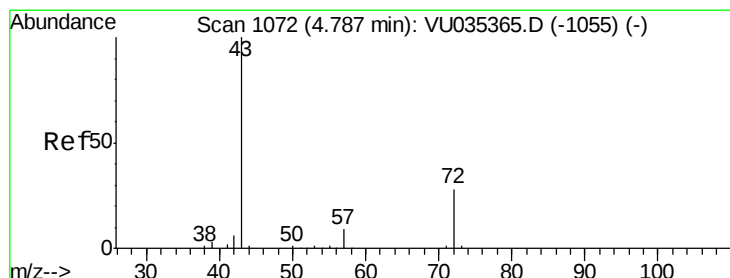
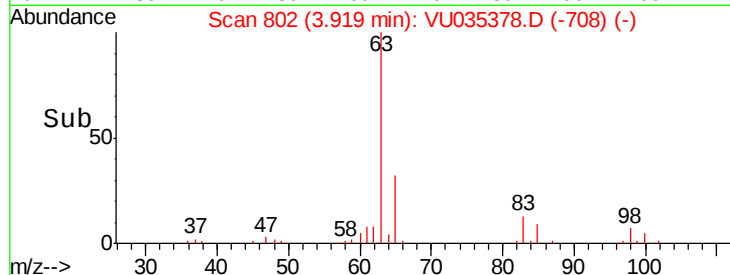
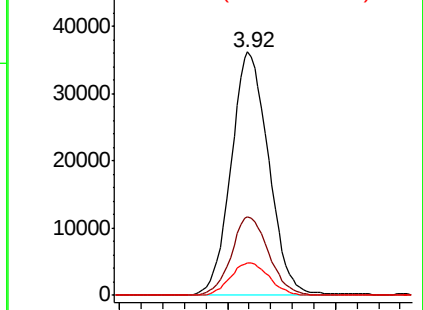
#19
 1,1-Dichloroethane
 Concen: 2.681 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: VU035378.D
 Acq: 22 Oct 2019 21:17

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 63 Resp: 87562
 Ion Ratio Lower Upper
 63 100
 65 32.3 22.4 41.6
 83 13.3 9.3 17.3

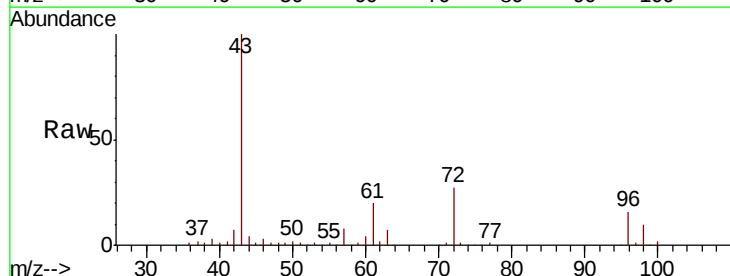


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

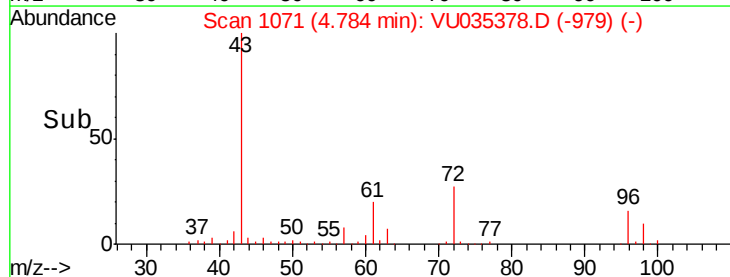
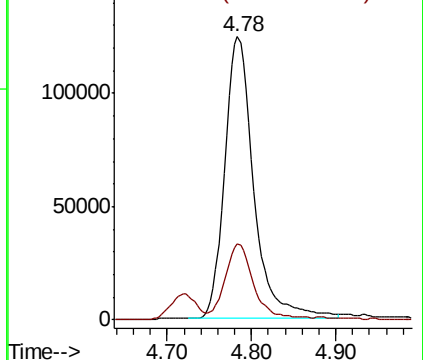


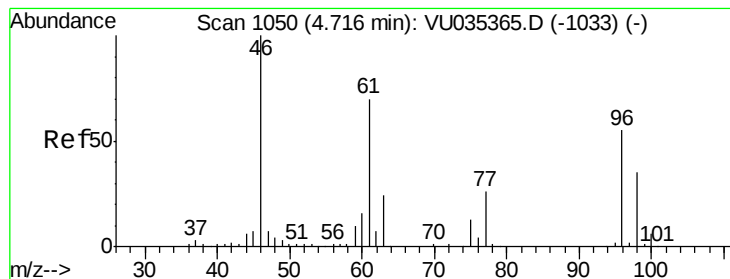
#21
 2-Butanone
 Concen: 57.956 ug/L
 RT: 4.78 min Scan# 1071
 Delta R.T. -0.00 min
 Lab File: VU035378.D
 Acq: 22 Oct 2019 21:17

Tgt Ion: 43 Resp: 299888
 Ion Ratio Lower Upper
 43 100
 72 24.9 13.6 40.8



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 150.878 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU035378.D

Acq: 22 Oct 2019 21:17

Instrument :
MSVOA_U
ClientSampleId :

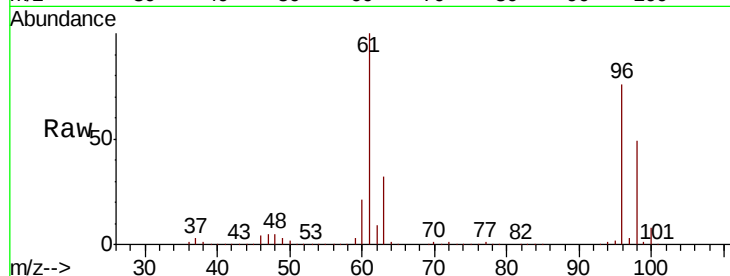
Tot Ion: 96 Resp: 3011497

Ion Ratio Lower Upper

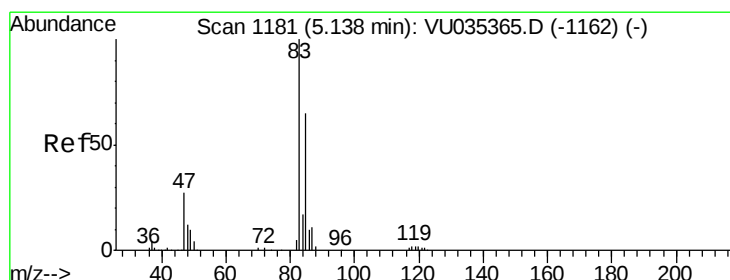
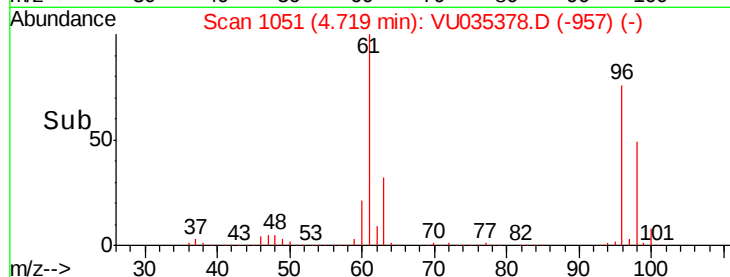
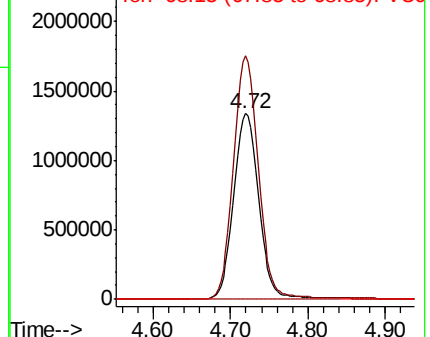
96 100

61 131.1 89.7 166.5

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



#25

Chloroform

Concen: 0.417 ug/L

RT: 5.14 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VU035378.D

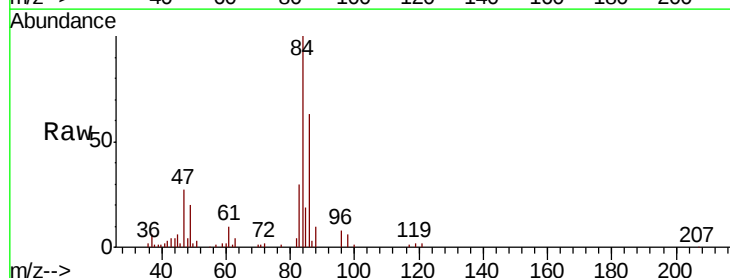
Acq: 22 Oct 2019 21:17

Tgt Ion: 83 Resp: 14949

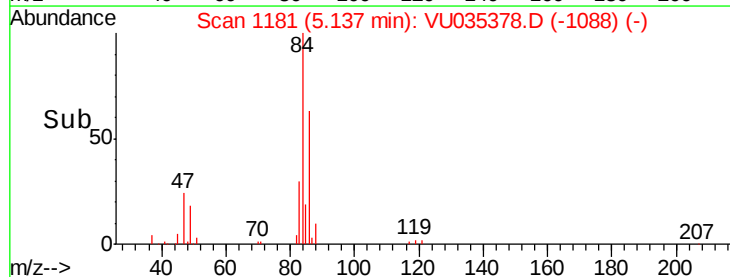
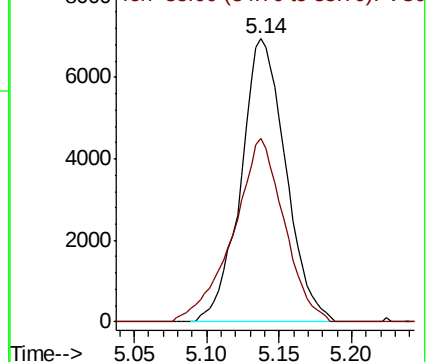
Ion Ratio Lower Upper

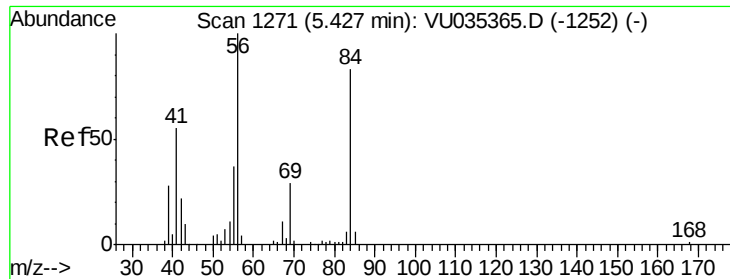
83 100

85 65.0 45.1 83.9



Abundance Ion 83.05 (82.75 to 83.75): VU0
Ion 85.00 (84.70 to 85.70): VU0

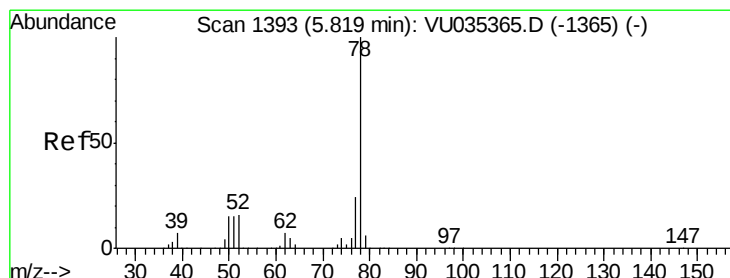
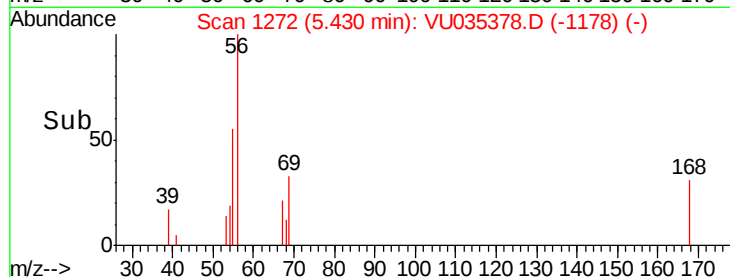
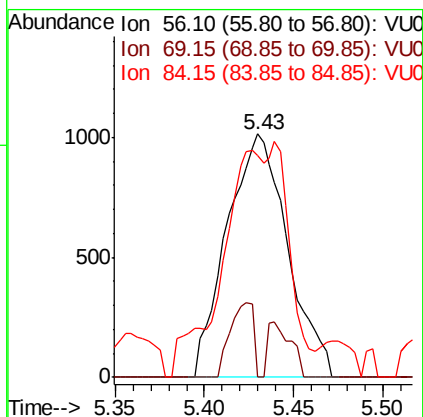
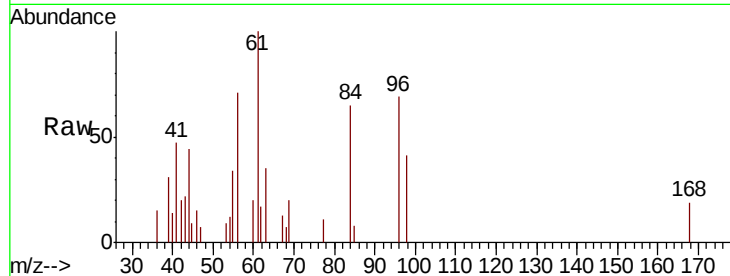




#30
Cyclohexane
Concen: 0.074 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU035378.D
Acq: 22 Oct 2019 21:17

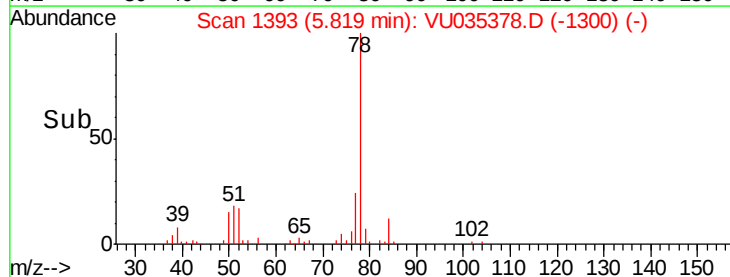
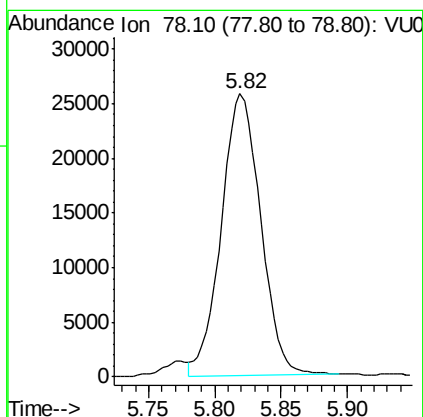
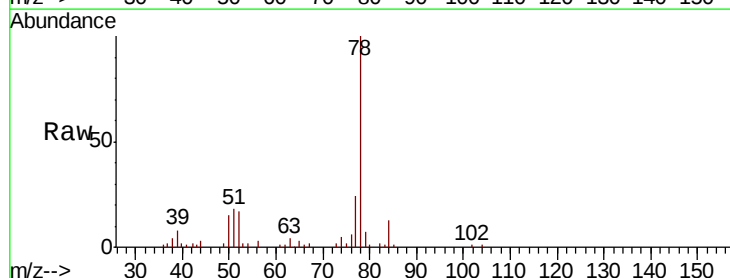
Instrument :
MSVOA_U
ClientSampleId :

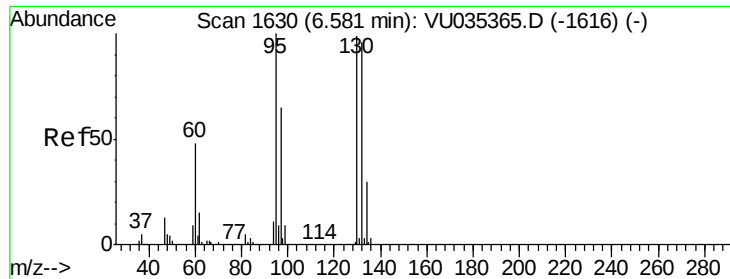
Tot Ion: 56 Resp: 2407
Ion Ratio Lower Upper
56 100
69 11.7 24.6 36.8#
84 65.3 71.5 107.3#



#33
Benzene
Concen: 0.696 ug/L
RT: 5.82 min Scan# 1393
Delta R.T. -0.00 min
Lab File: VU035378.D
Acq: 22 Oct 2019 21:17

Tgt Ion: 78 Resp: 53193





#34

Trichloroethene

Concen: 58.673 ug/L

RT: 6.58 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU035378.D

Acq: 22 Oct 2019 21:17

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 1205406

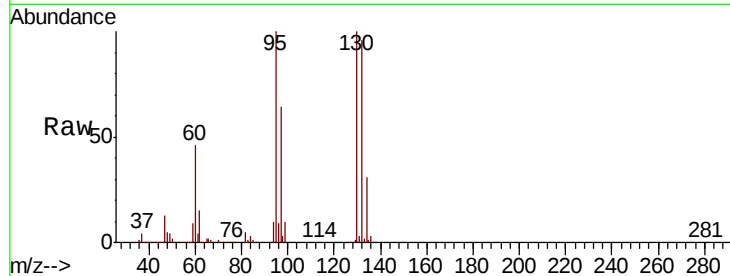
Ion Ratio Lower Upper

95 100

97 64.6 46.6 86.6

132 96.7 68.7 127.7

130 100.3 73.9 137.3

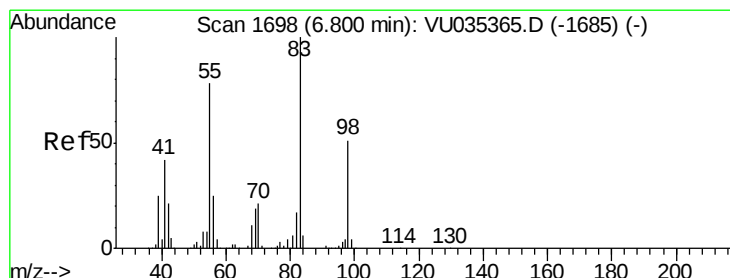
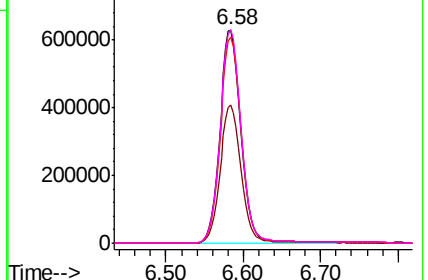
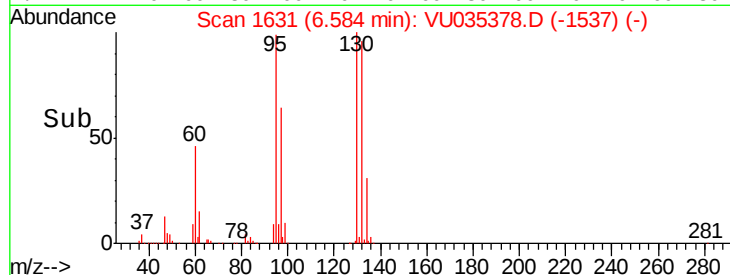


Abundance Ion 95.00 (94.70 to 95.70): VU035378.D (-1537) (-)

Ion 96.95 (96.65 to 97.65): VU035378.D (-1537) (-)

Ion 131.95 (131.65 to 132.65): VU035378.D (-1537) (-)

Ion 129.95 (129.65 to 130.65): VU035378.D (-1537) (-)



#35

Methylcyclohexane

Concen: 0.798 ug/L

RT: 6.74 min Scan# 1678

Delta R.T. -0.06 min

Lab File: VU035378.D

Acq: 22 Oct 2019 21:17

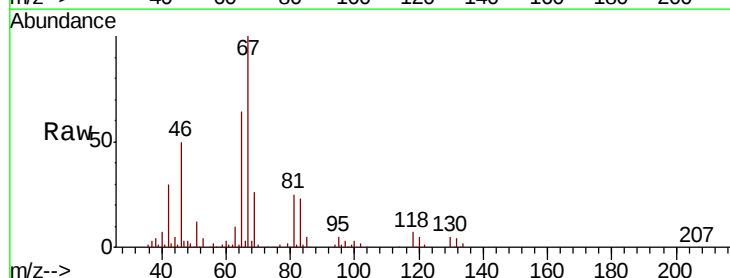
Tgt Ion: 83 Resp: 27411

Ion Ratio Lower Upper

83 100

55 0.4 60.4 90.6#

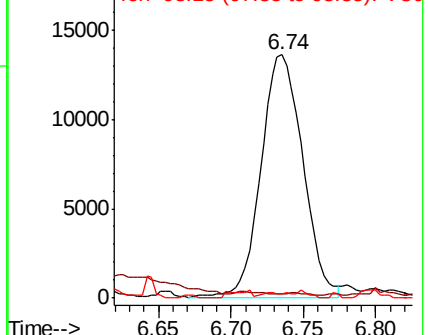
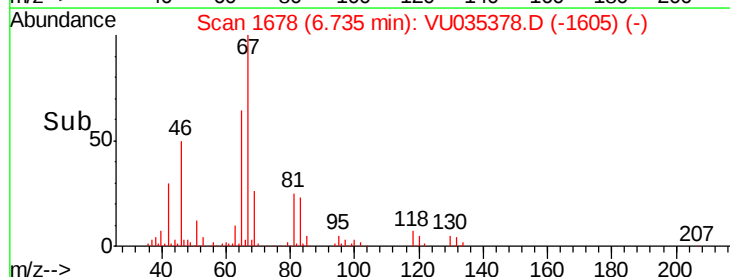
98 0.0 39.5 59.3#

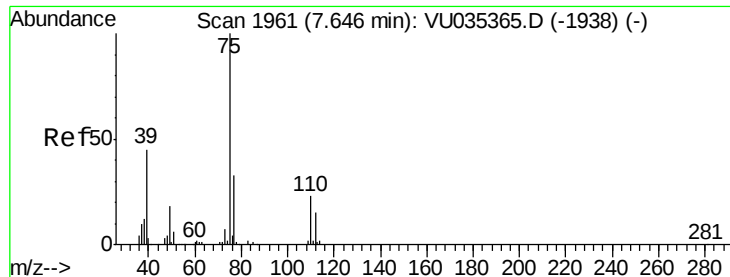


Abundance Ion 83.15 (82.85 to 83.85): VU035378.D (-1605) (-)

Ion 55.10 (54.80 to 55.80): VU035378.D (-1605) (-)

Ion 98.15 (97.85 to 98.85): VU035378.D (-1605) (-)





#39

cis-1,3-Dichloropropene

Concen: 0.089 ug/L

RT: 7.60 min Scan# 1948

Delta R.T. -0.04 min

Lab File: VU035378.D

Acq: 22 Oct 2019 21:17

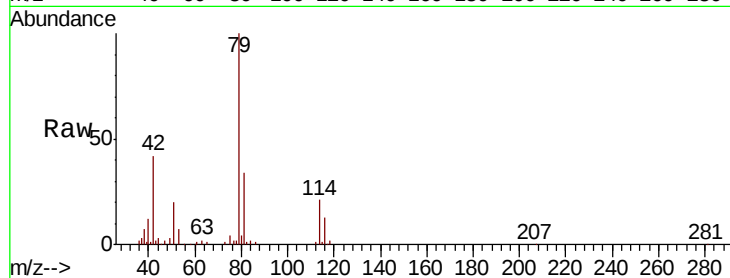
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 75 Resp: 2874

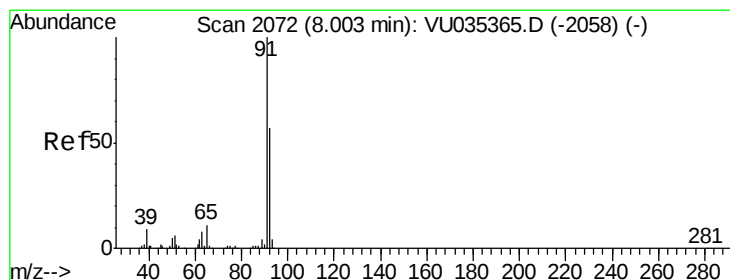
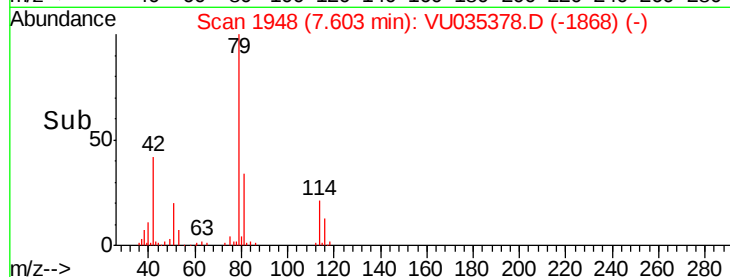
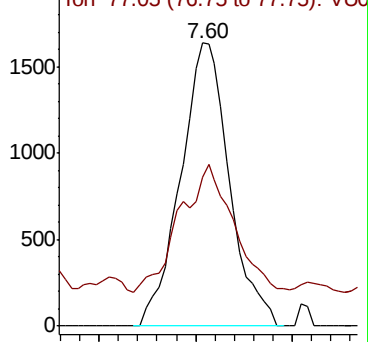
Ion Ratio Lower Upper

75 100

77 52.8 22.7 42.1#



Abundance Ion 75.05 (74.75 to 75.75): VU035365.D (-1938) (-)



#42

Toluene

Concen: 0.226 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VU035378.D

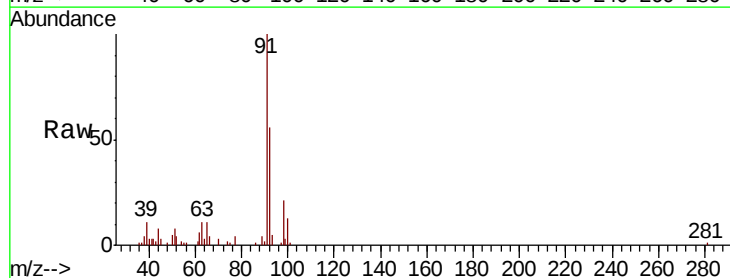
Acq: 22 Oct 2019 21:17

Tgt Ion: 91 Resp: 19046

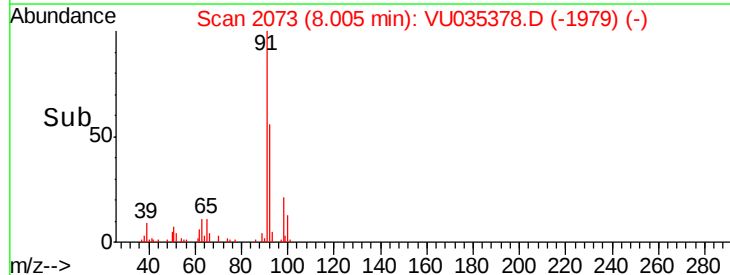
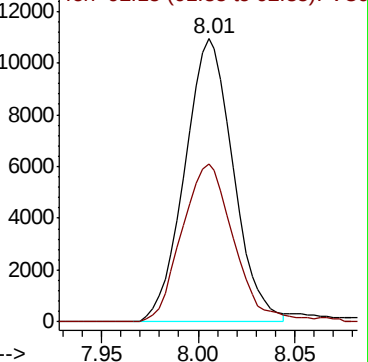
Ion Ratio Lower Upper

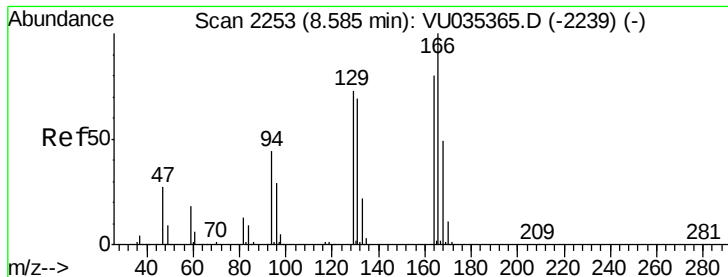
91 100

92 56.0 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VU035365.D (-2058) (-)

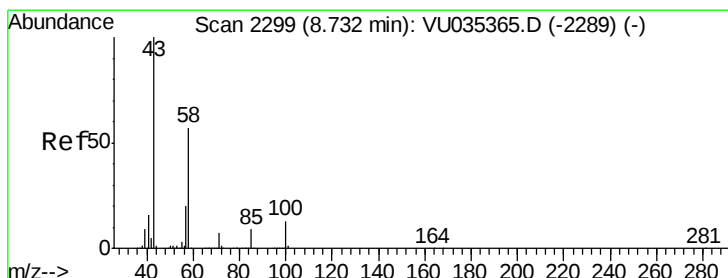
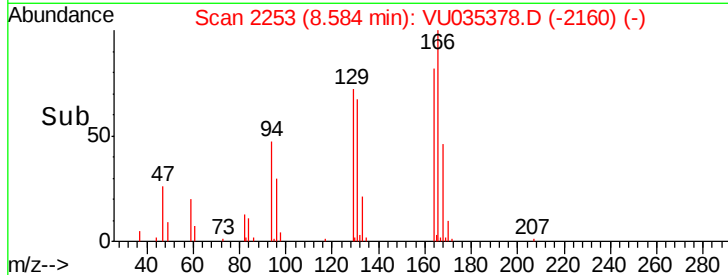
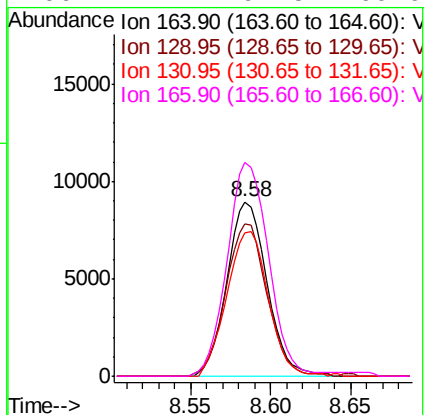
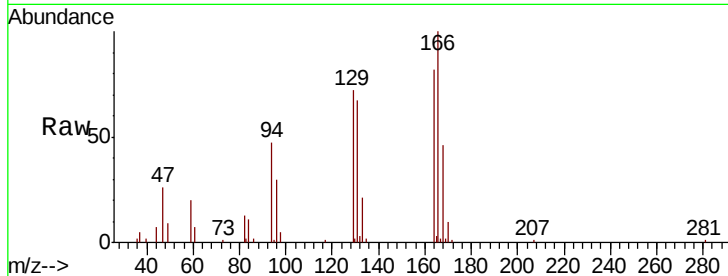




#47
Tetrachloroethene
Concen: 0.892 ug/L
RT: 8.58 min Scan# 2253
Delta R.T. -0.00 min
Lab File: VU035378.D
Acq: 22 Oct 2019 21:17

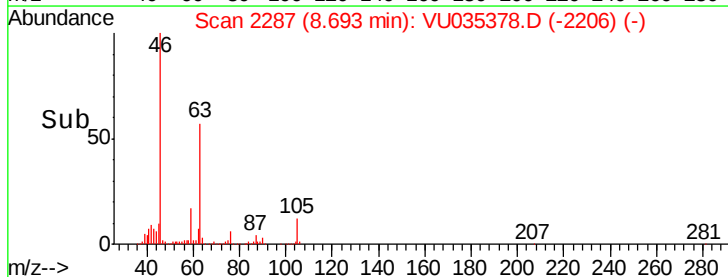
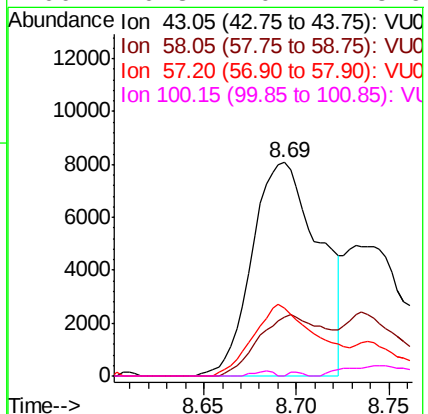
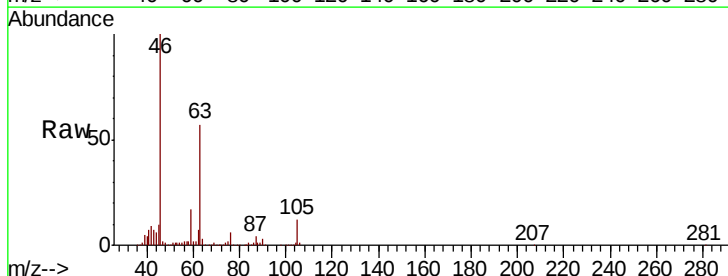
Instrument :
MSVOA_U
ClientSampleId :

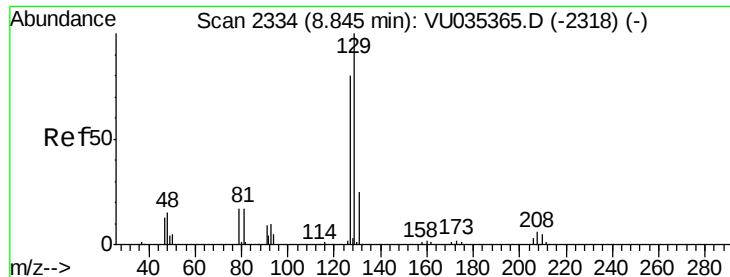
Tot Ion	Ratio	Lower	Upper
164	100		
129	87.7	65.2	121.0
131	82.5	62.9	116.9
166	122.4	91.5	169.9



#48
2-Hexanone
Concen: 2.207 ug/L
RT: 8.69 min Scan# 2287
Delta R.T. -0.04 min
Lab File: VU035378.D
Acq: 22 Oct 2019 21:17

Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.5	45.1	67.7#
57	32.7	16.0	24.0#
100	0.3	10.4	15.6#





#49

Dibromochloromethane

Concen: 0.746 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.26 min

Lab File: VU035378.D

Acq: 22 Oct 2019 21:17

Instrument :

MSVOA_U

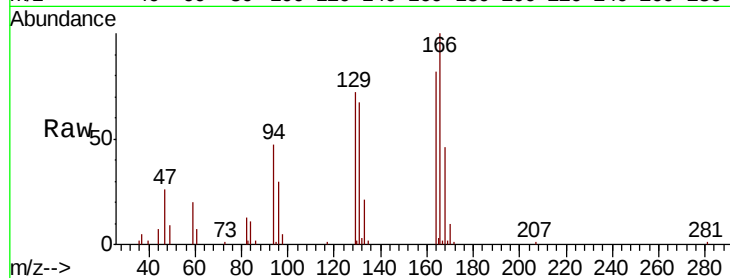
ClientSampleId :

Tot Ion:129 Resp: 13621

Ion Ratio Lower Upper

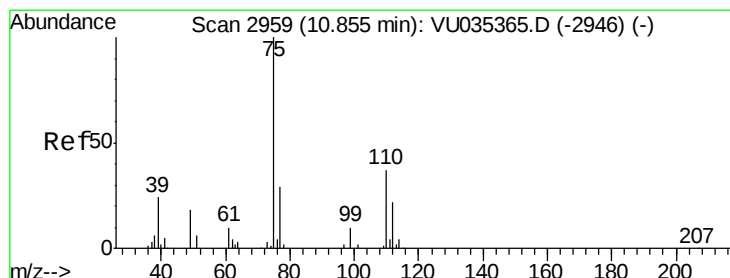
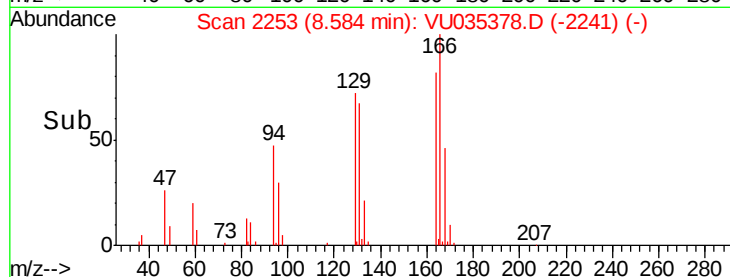
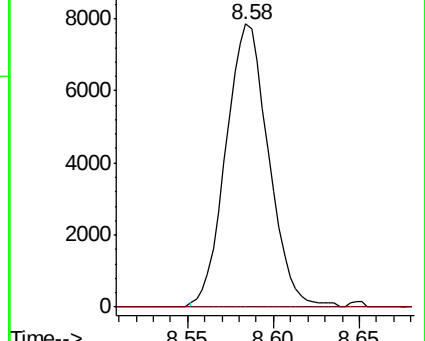
129 100

127 0.0 53.8 99.8#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#59

1,2,3-Trichloropropane

Concen: 0.818 ug/L

RT: 11.84 min Scan# 3267

Delta R.T. 0.99 min

Lab File: VU035378.D

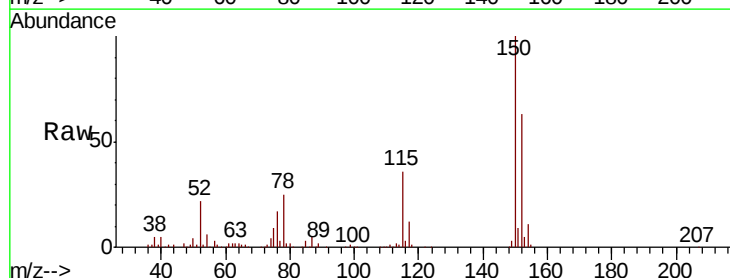
Acq: 22 Oct 2019 21:17

Tgt Ion: 75 Resp: 11058

Ion Ratio Lower Upper

75 100

77 39.3 26.2 39.2#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

