

Data File : VU033215.D
Acq On : 12 Jul 2019 11:36
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

Quant Time: Jul 13 00:04:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Jul 12 23:46:09 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	335782	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	330994	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	166871	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	119083	46.85	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	93.70%
7) Chloroethane-d5	1.67	69	101469	46.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.46%
11) 1,1-Dichloroethene-d2	2.26	63	216011	46.85	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.70%
21) 2-Butanone-d5	4.15	46	164329	102.03	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.03%
24) Chloroform-d	4.62	84	201046	47.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.40%
26) 1,2-Dichloroethane-d4	5.28	65	126973	46.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.94%
32) Benzene-d6	5.32	84	397483	48.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.90%
36) 1,2-Dichloropropane-d6	6.31	67	127931	49.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.36%
41) Toluene-d8	7.55	98	380905	49.75	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.50%
43) trans-1,3-Dichloropropene-	7.83	79	65281	51.18	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.36%
47) 2-Hexanone-d5	8.29	63	126287	107.70	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	107.70%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	193324	49.11	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.22%
64) 1,2-Dichlorobenzene-d4	11.85	152	149027	50.08	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.16%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	155562	46.750 ug/L	98
3) Chloromethane	1.32	50	152365	46.478 ug/L	100
5) Vinyl chloride	1.39	62	177478	46.839 ug/L	99
6) Bromomethane	1.61	94	110752	46.885 ug/L	98
8) Chloroethane	1.69	64	105815	46.170 ug/L	95
9) Trichlorofluoromethane	1.87	101	230787	46.319 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	108961	47.566 ug/L	99
12) 1,1-Dichloroethene	2.27	96	106434	47.489 ug/L	93
13) Acetone	2.31	43	164583	81.788 ug/L	98
14) Carbon disulfide	2.46	76	323997	47.267 ug/L	99
15) Methyl Acetate	2.60	43	131515	50.047 ug/L	98
16) Methylene chloride	2.68	84	120004	46.896 ug/L	97
17) trans-1,2-Dichloroethene	2.96	96	112265	48.466 ug/L	98
18) Methyl tert-butyl Ether	2.98	73	348333	48.719 ug/L	99
19) 1,1-Dichloroethane	3.42	63	210540	47.285 ug/L	98
20) cis-1,2-Dichloroethene	4.20	96	123390	47.226 ug/L	98
22) 2-Butanone	4.23	43	207878	92.992 ug/L	99

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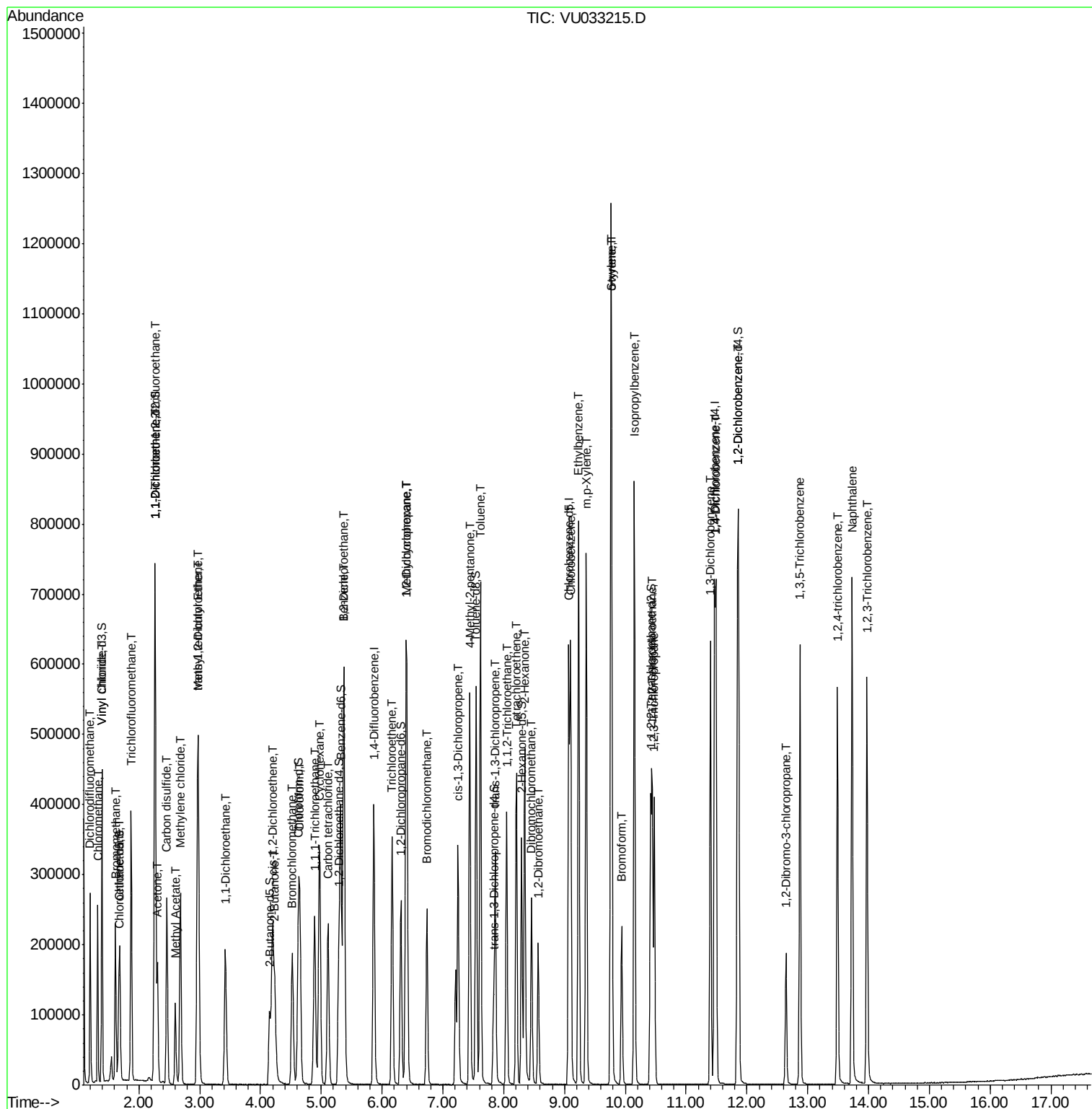
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	64764	48.407	ug/L	99
25) Chloroform	4.65	83	218989	46.244	ug/L	100
27) 1,2-Dichloroethane	5.38	62	174415	47.564	ug/L	100
29) Cyclohexane	4.97	56	184242	51.083	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	188190	48.734	ug/L	98
31) Carbon tetrachloride	5.11	117	164609	48.711	ug/L	99
33) Benzene	5.37	78	474549	49.162	ug/L	100
34) Trichloroethene	6.16	95	121988	48.323	ug/L	99
35) Methylcyclohexane	6.40	83	194974	50.419	ug/L	100
37) 1,2-Dichloropropane	6.41	63	125939	48.109	ug/L	100
38) Bromodichloromethane	6.74	83	162749	48.197	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	203802	50.777	ug/L	97
40) 4-Methyl-2-pentanone	7.44	43	359718	102.434	ug/L	99
42) Toluene	7.62	91	517319	49.710	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	184835	51.064	ug/L	98
45) 1,1,2-Trichloroethane	8.05	97	118988	48.060	ug/L	99
46) Tetrachloroethene	8.21	164	96311	49.283	ug/L	98
48) 2-Hexanone	8.34	43	290915	101.686	ug/L	99
49) Dibromochloromethane	8.46	129	134816	48.815	ug/L	98
50) 1,2-Dibromoethane	8.57	107	132927	49.243	ug/L	99
51) Chlorobenzene	9.10	112	328121	48.306	ug/L	99
52) Ethylbenzene	9.23	91	561932	50.462	ug/L	99
53) m,p-Xylene	9.36	106	213775	50.683	ug/L	100
54) o-xylene	9.76	106	210975	50.374	ug/L	99
55) Styrene	9.77	104	364724	51.365	ug/L	99
56) Isopropylbenzene	10.15	105	550750	51.103	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	212292	48.816	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	165019	48.422	ug/L	100
61) Bromoform	9.94	173	101127	49.621	ug/L	97
62) 1,3-Dichlorobenzene	11.40	146	253649	49.380	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	263520	49.065	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	259116	49.186	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.64	75	49383	49.114	ug/L	98
67) 1,3,5-Trichlorobenzene	12.87	180	191217	51.509	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	171309	52.831	ug/L	99
69) Naphthalene	13.73	128	577514	55.548	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	179802	51.076	ug/L	98

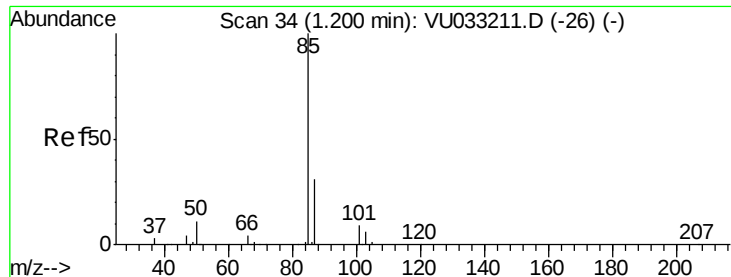
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 46.750 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

Instrument :

MSVOA_U

ClientSampleId :

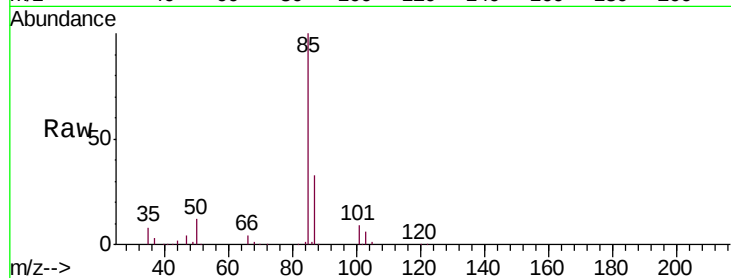
VSTD05047

Tgt Ion: 85 Resp: 155562

Ion Ratio Lower Upper

85 100

87 32.7 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033215.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033215.D (-1) (-)

1.20

150000

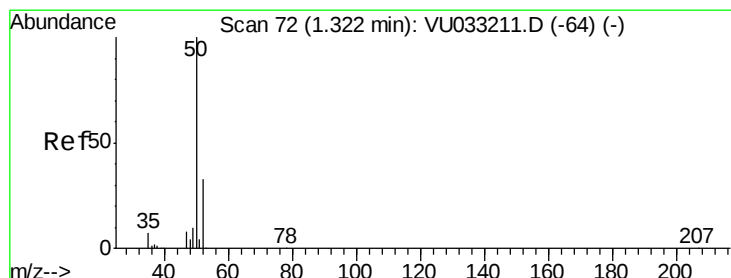
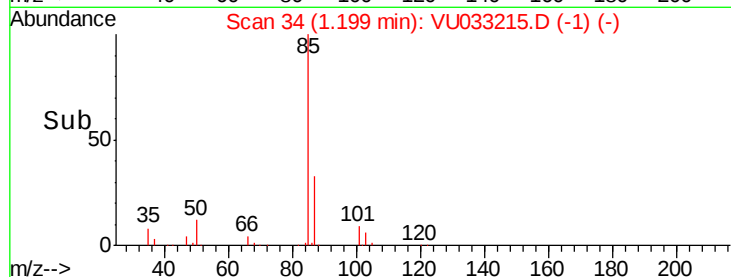
100000

50000

0

1.15 1.20 1.25

Time-->



#3

Chloromethane

Concen: 46.478 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU033215.D

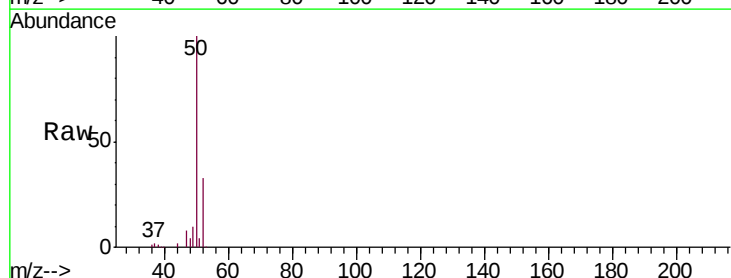
Acq: 12 Jul 2019 11:36

Tgt Ion: 50 Resp: 152365

Ion Ratio Lower Upper

50 100

52 33.2 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VU033215.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033215.D (-1) (-)

1.32

150000

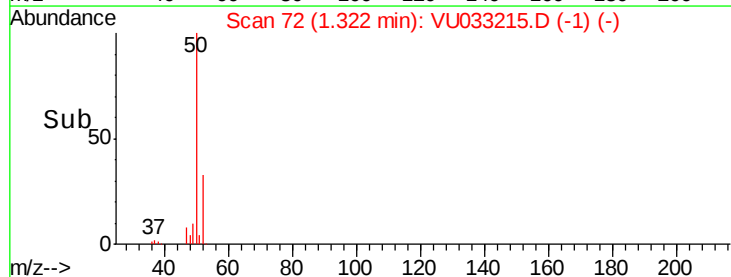
100000

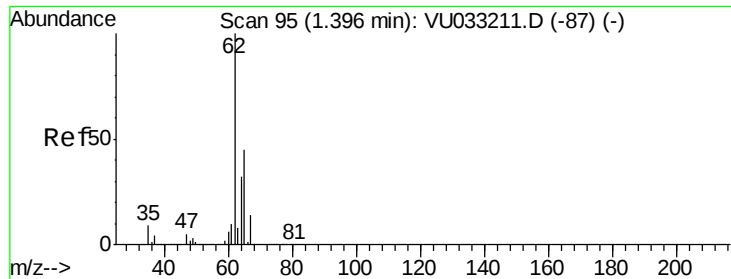
50000

0

1.30 1.35 1.40

Time-->





#5

Vinyl chloride

Concen: 46.839 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

Instrument :

MSVOA_U

ClientSampleId :

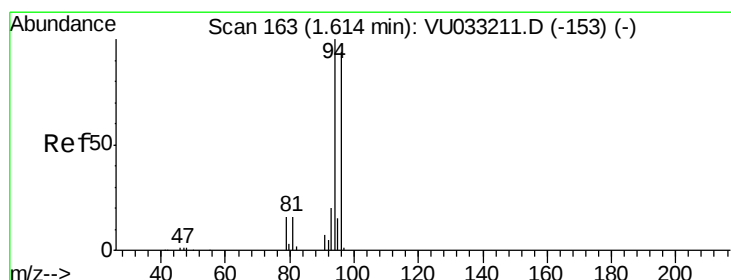
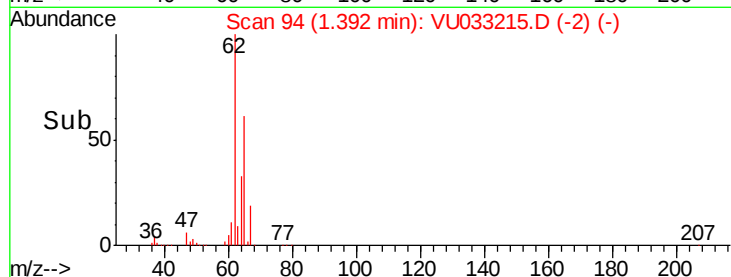
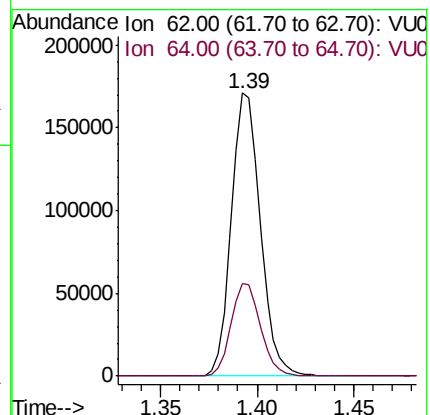
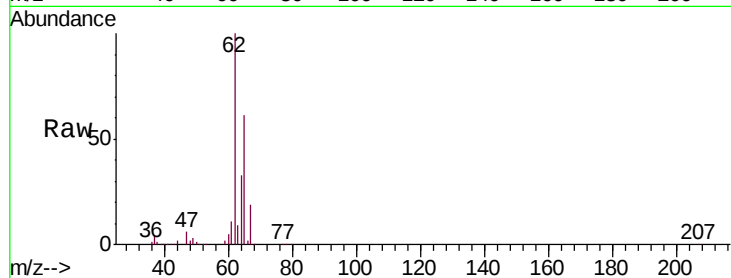
VSTD05047

Tgt Ion: 62 Resp: 177478

Ion Ratio Lower Upper

62 100

64 32.9 22.7 42.3



#6

Bromomethane

Concen: 46.885 ug/L

RT: 1.61 min Scan# 163

Delta R.T. -0.00 min

Lab File: VU033215.D

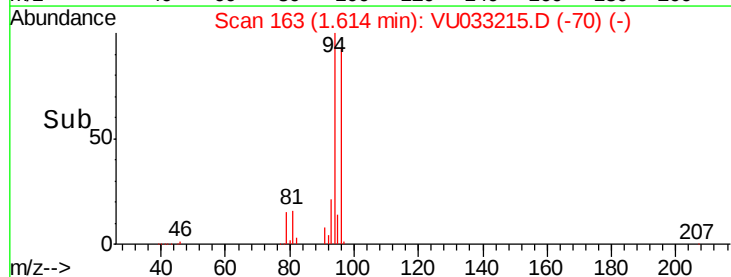
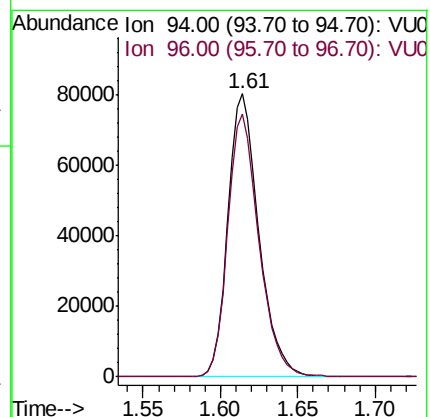
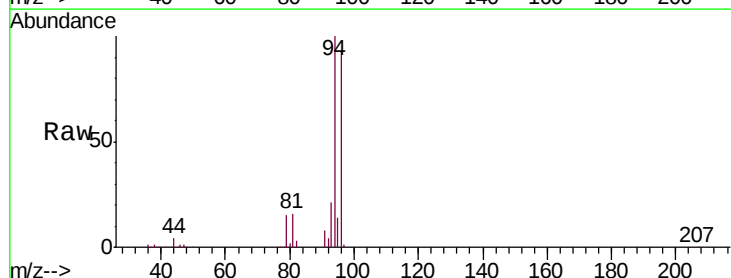
Acq: 12 Jul 2019 11:36

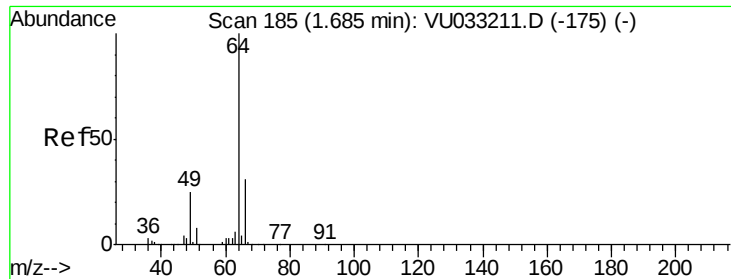
Tgt Ion: 94 Resp: 110752

Ion Ratio Lower Upper

94 100

96 92.7 66.1 122.7





#8

Chloroethane

Concen: 46.170 ug/L

RT: 1.69 min Scan# 185

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

Instrument :

MSVOA_U

ClientSampleId :

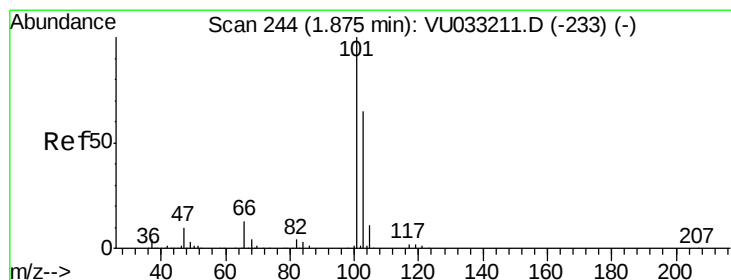
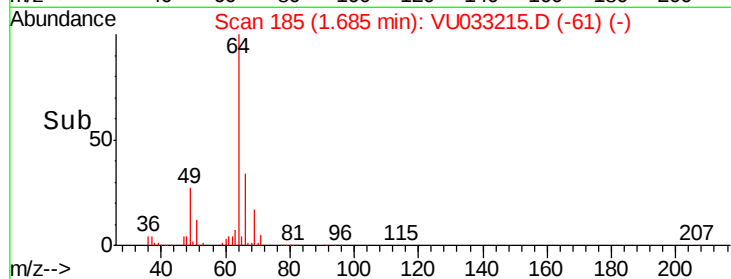
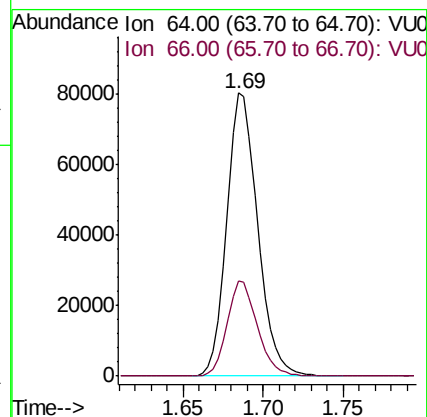
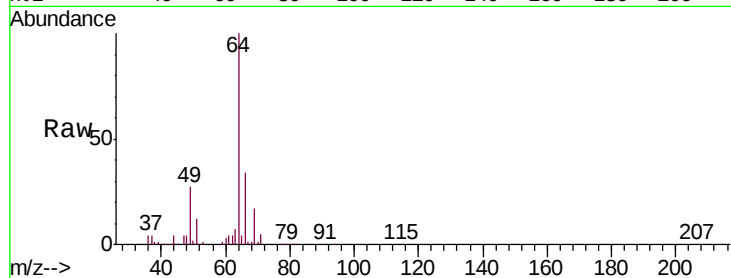
VSTD05047

Tgt Ion: 64 Resp: 105815

Ion Ratio Lower Upper

64 100

66 33.6 21.6 40.0



#9

Trichlorofluoromethane

Concen: 46.319 ug/L

RT: 1.87 min Scan# 243

Delta R.T. -0.00 min

Lab File: VU033215.D

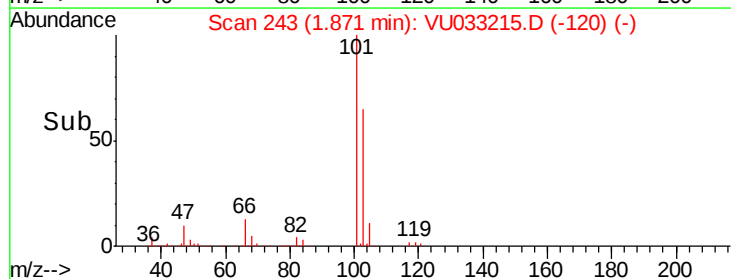
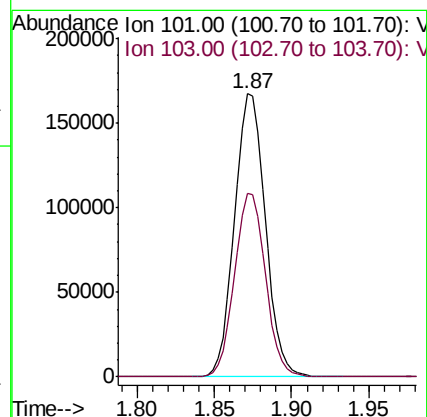
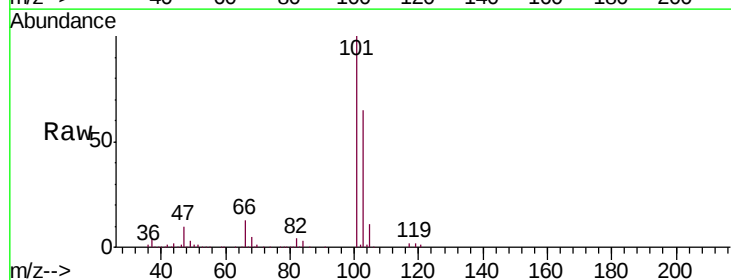
Acq: 12 Jul 2019 11:36

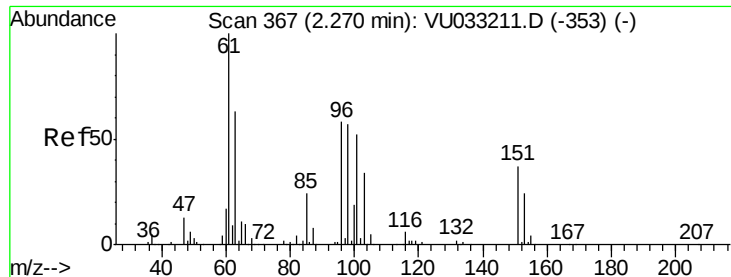
Tgt Ion: 101 Resp: 230787

Ion Ratio Lower Upper

101 100

103 65.0 52.2 78.4





#10

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

Concen: 47.566 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

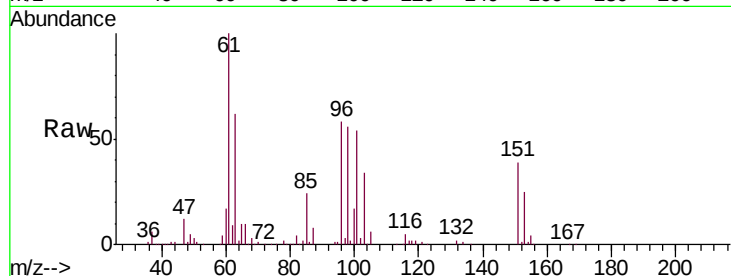
Tgt Ion: 101 Resp: 108961

Ion Ratio Lower Upper

101 100

85 44.5 35.8 53.8

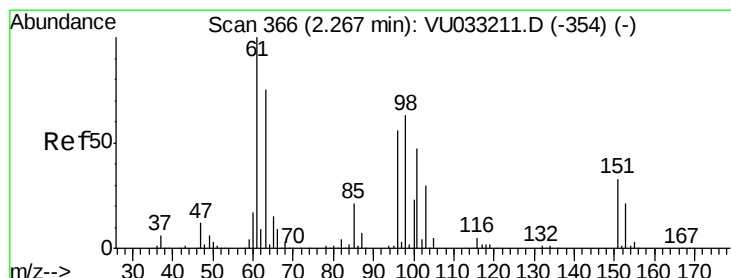
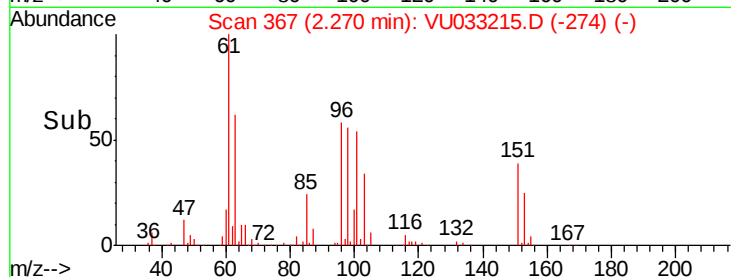
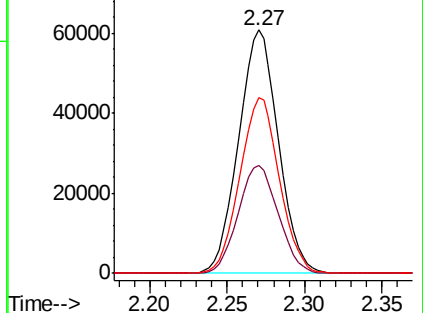
151 71.5 56.7 85.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 47.489 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

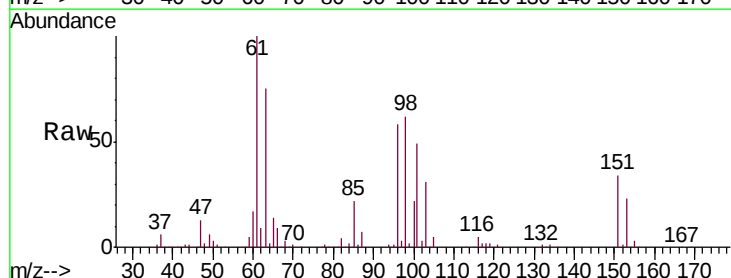
Tgt Ion: 96 Resp: 106434

Ion Ratio Lower Upper

96 100

61 171.6 126.1 234.1

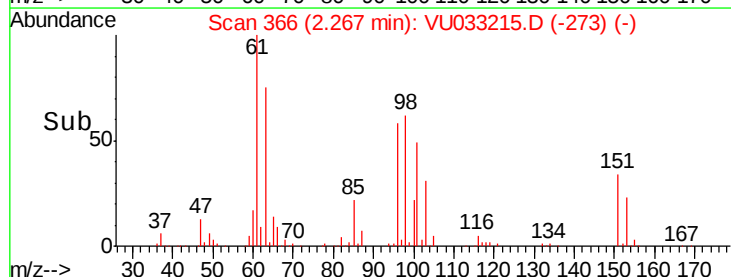
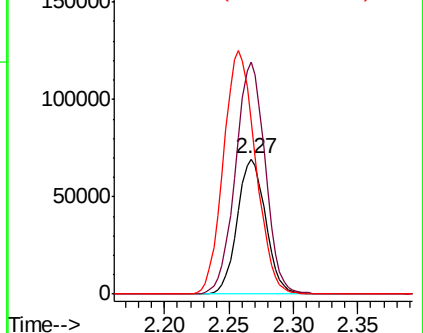
63 128.5 96.8 179.8

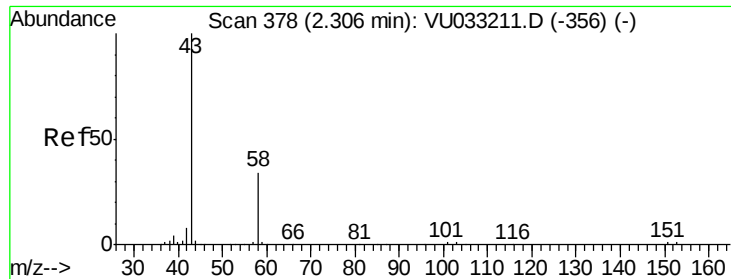


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 81.788 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

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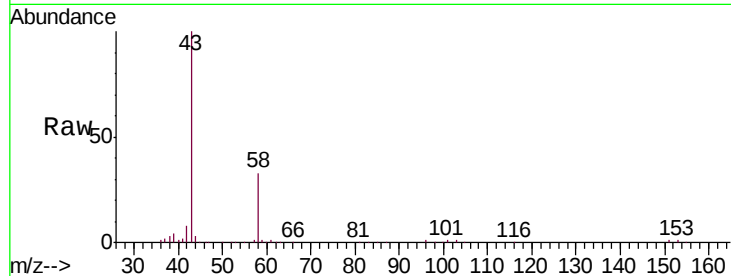
VSTD05047

Tgt Ion: 43 Resp: 164583

Ion Ratio Lower Upper

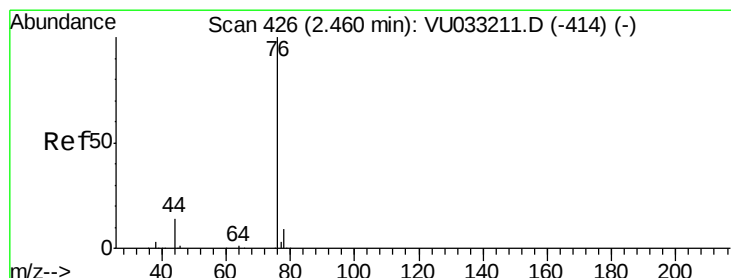
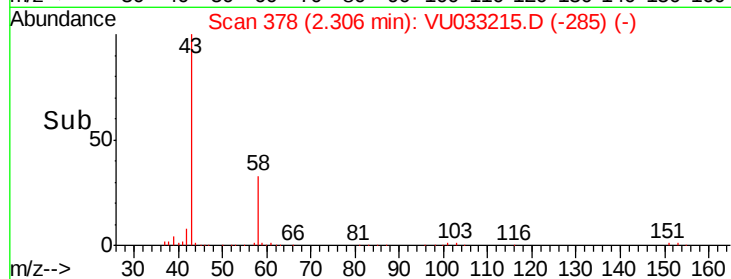
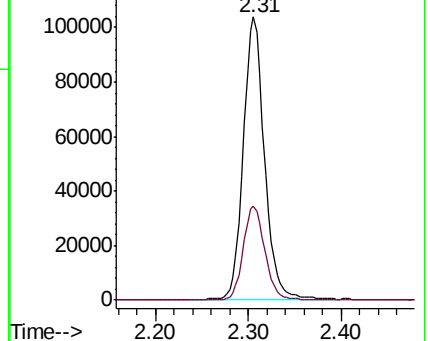
43 100

58 34.0 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VU033215.D (-356) (-)

Ion 58.00 (57.70 to 58.70): VU033215.D (-356) (-)



#14

Carbon disulfide

Concen: 47.267 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VU033215.D

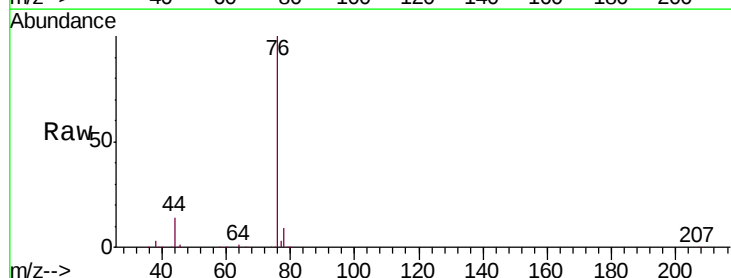
Acq: 12 Jul 2019 11:36

Tgt Ion: 76 Resp: 323997

Ion Ratio Lower Upper

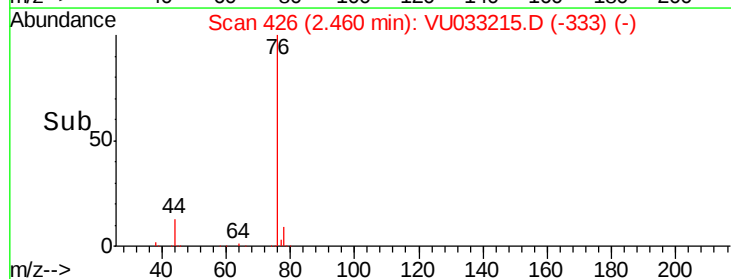
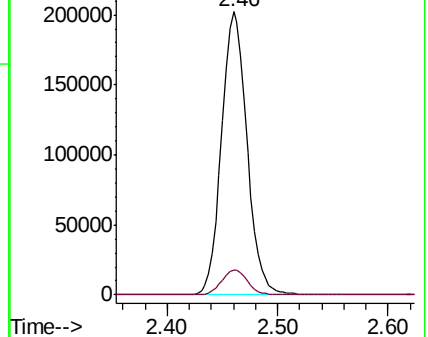
76 100

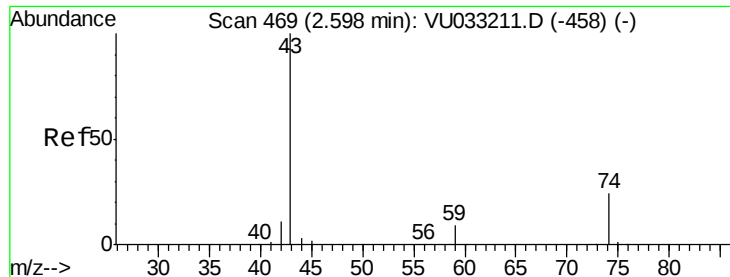
78 9.0 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU033215.D (-333) (-)

Ion 78.00 (77.70 to 78.70): VU033215.D (-333) (-)

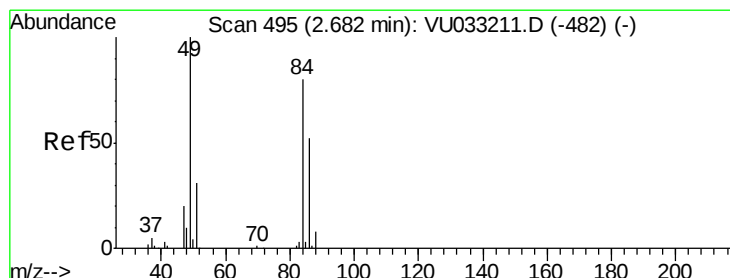
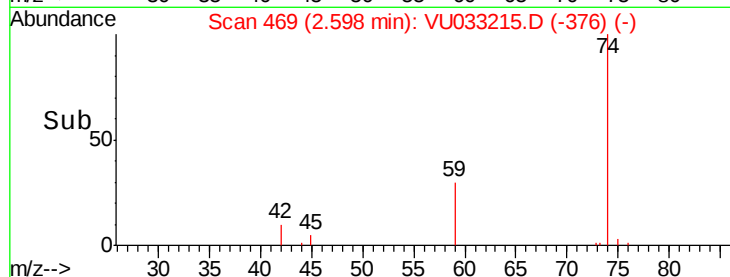
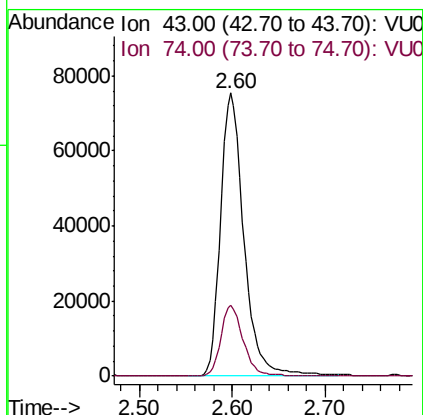
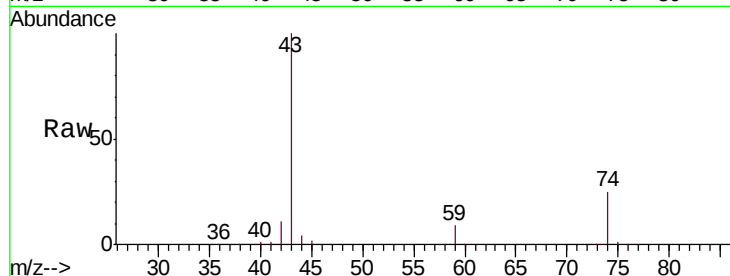




#15
Methyl Acetate
Concen: 50.047 ug/L
RT: 2.60 min Scan# 469
Delta R.T. -0.00 min
Lab File: VU033215.D
Acq: 12 Jul 2019 11:36

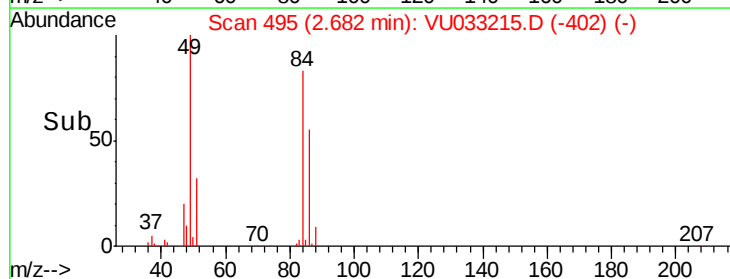
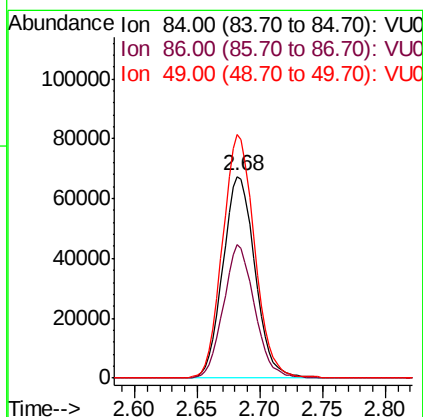
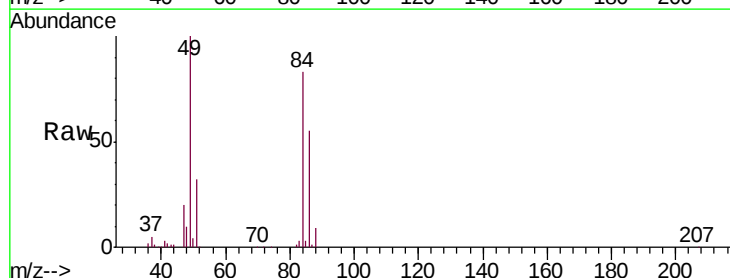
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

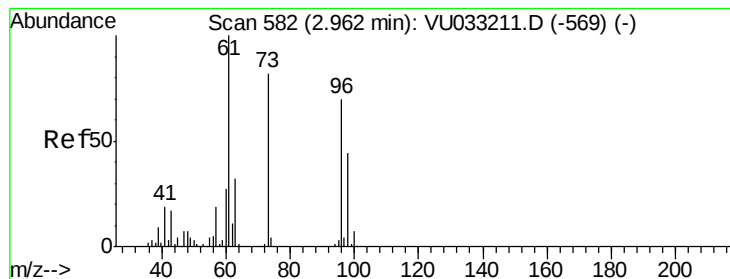
Tgt Ion: 43 Resp: 131515
Ion Ratio Lower Upper
43 100
74 23.9 19.9 29.9



#16
Methylene chloride
Concen: 46.896 ug/L
RT: 2.68 min Scan# 495
Delta R.T. -0.00 min
Lab File: VU033215.D
Acq: 12 Jul 2019 11:36

Tgt Ion: 84 Resp: 120004
Ion Ratio Lower Upper
84 100
86 66.0 45.7 84.9
49 120.6 87.7 162.9





#17

trans-1,2-Dichloroethene

Concen: 48.466 ug/L

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

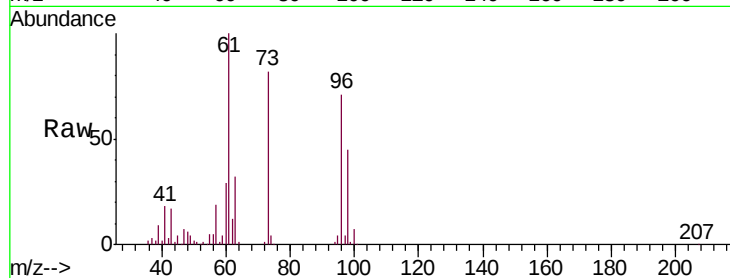
Tgt Ion: 96 Resp: 112265

Ion Ratio Lower Upper

96 100

61 140.5 100.2 186.2

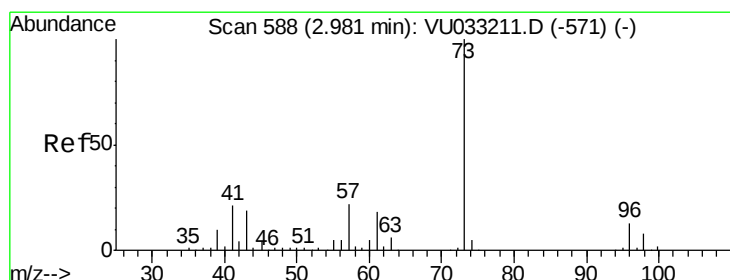
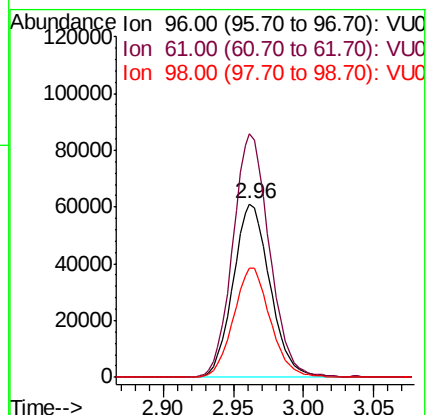
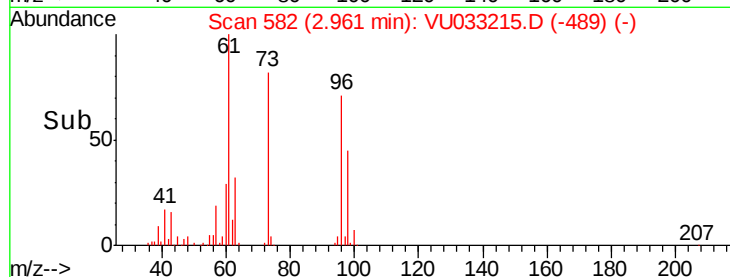
98 63.2 44.2 82.0



Abundance Ion 96.00 (95.70 to 96.70): VU033215.D (-489) (-)

Ion 61.00 (60.70 to 61.70): VU033215.D (-489) (-)

Ion 98.00 (97.70 to 98.70): VU033215.D (-489) (-)



#18

Methyl tert-butyl Ether

Concen: 48.719 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

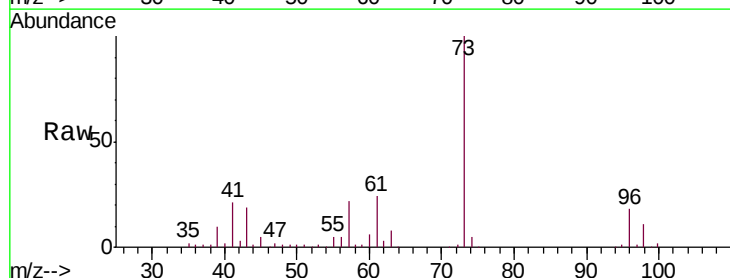
Tgt Ion: 73 Resp: 348333

Ion Ratio Lower Upper

73 100

43 19.8 15.7 23.5

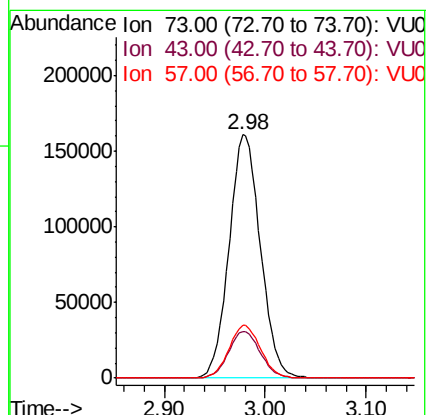
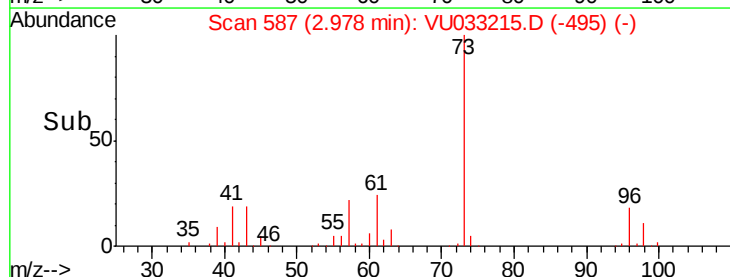
57 21.9 17.8 26.6

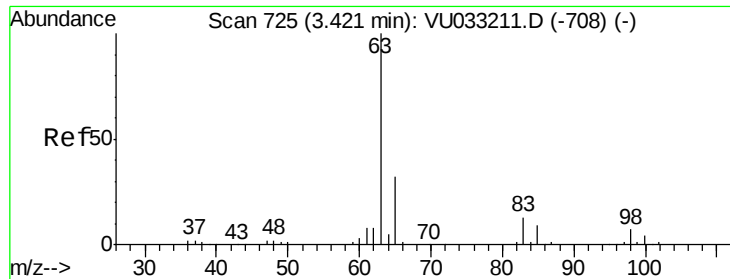


Abundance Ion 73.00 (72.70 to 73.70): VU033215.D (-495) (-)

Ion 43.00 (42.70 to 43.70): VU033215.D (-495) (-)

Ion 57.00 (56.70 to 57.70): VU033215.D (-495) (-)

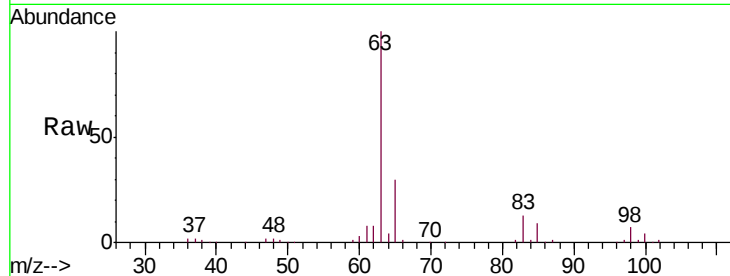




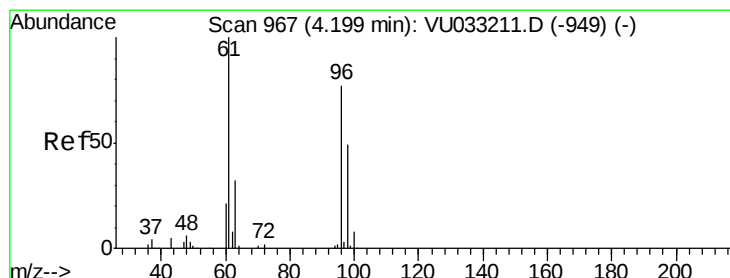
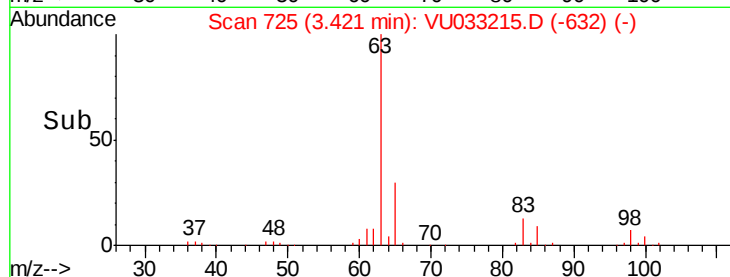
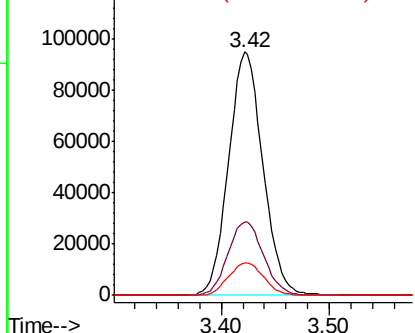
#19
 1,1-Dichloroethane
 Concen: 47.285 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. -0.00 min
 Lab File: VU033215.D
 Acq: 12 Jul 2019 11:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Tgt Ion: 63 Resp: 210540
 Ion Ratio Lower Upper
 63 100
 65 30.1 22.3 41.5
 83 13.3 9.3 17.3

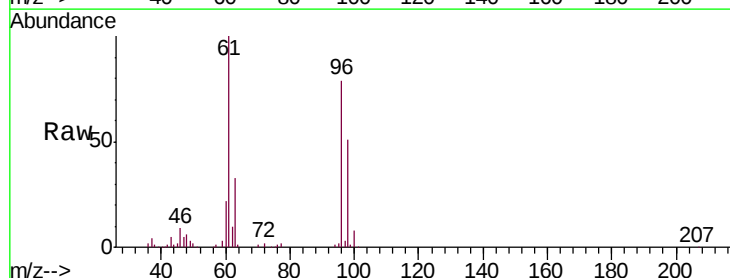


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

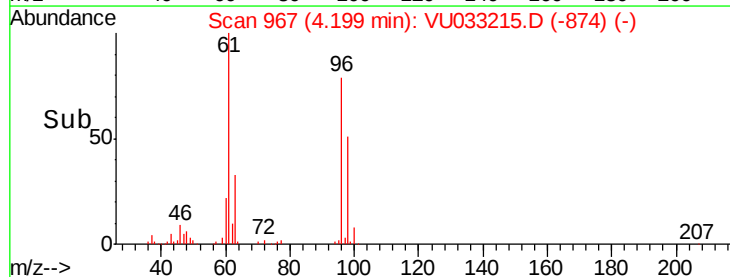
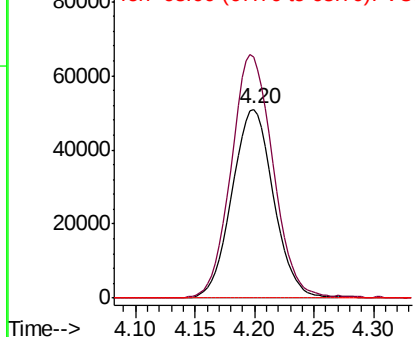


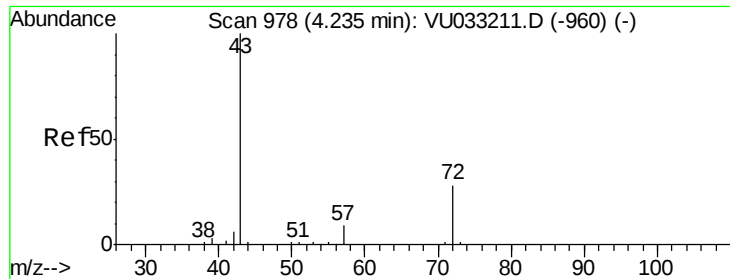
#20
 cis-1,2-Dichloroethene
 Concen: 47.226 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. -0.00 min
 Lab File: VU033215.D
 Acq: 12 Jul 2019 11:36

Tgt Ion: 96 Resp: 123390
 Ion Ratio Lower Upper
 96 100
 61 127.2 91.1 169.1
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 92.992 ug/L

RT: 4.23 min Scan# 978

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

Instrument :

MSVOA_U

ClientSampleId :

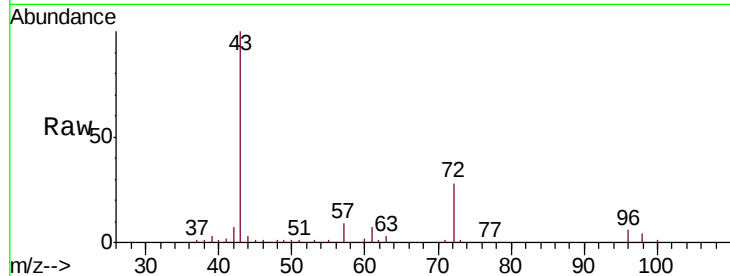
VSTD05047

Tgt Ion: 43 Resp: 207878

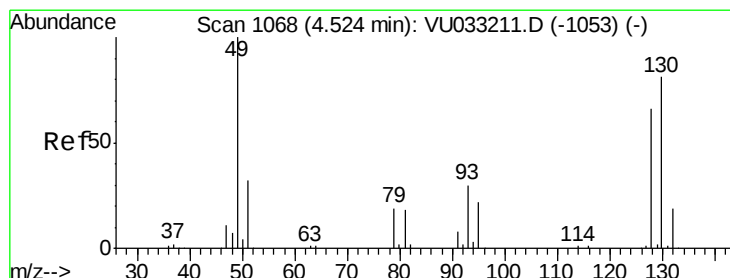
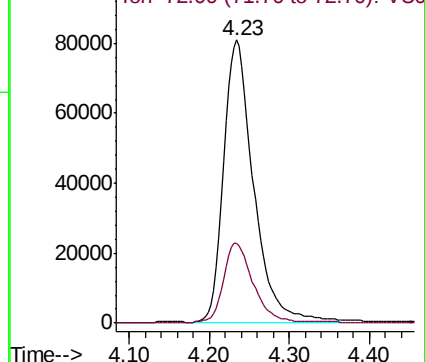
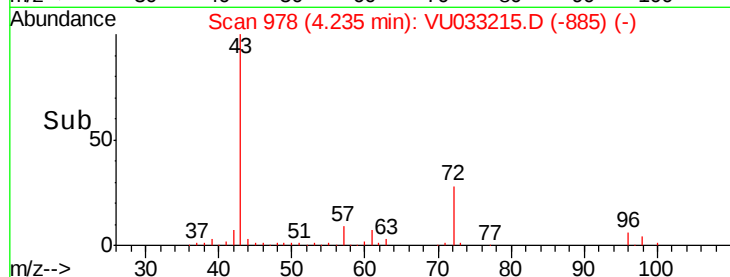
Ion Ratio Lower Upper

43 100

72 28.2 14.4 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU033215.D (-885) (-)



#23

Bromochloromethane

Concen: 48.407 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

Tgt Ion: 128 Resp: 64764

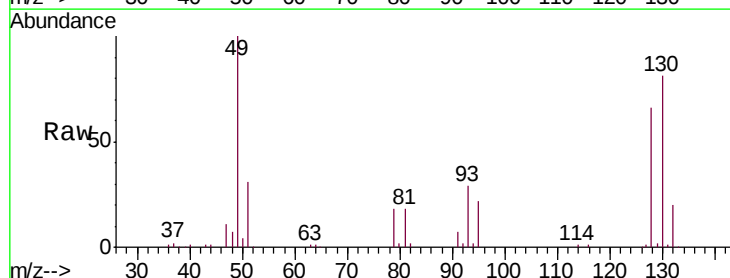
Ion Ratio Lower Upper

128 100

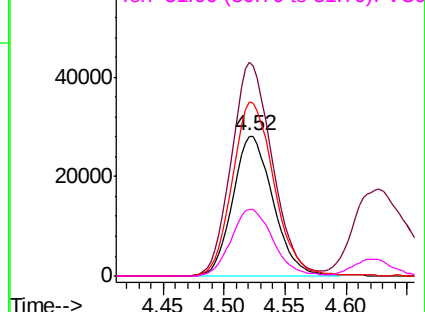
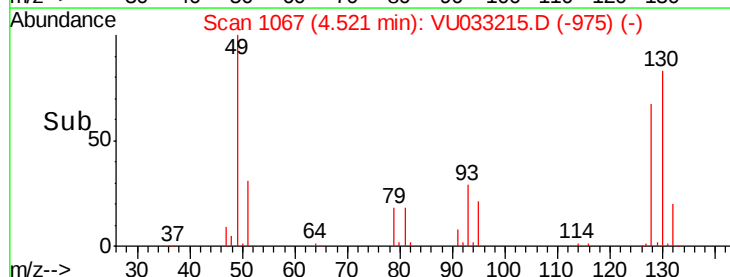
49 152.6 107.2 199.2

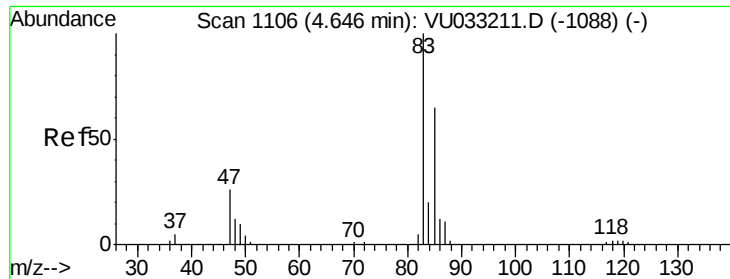
130 124.2 87.0 161.6

51 47.7 39.6 59.4



Abundance Ion 128.00 (127.70 to 128.70): VU033215.D (-975) (-)

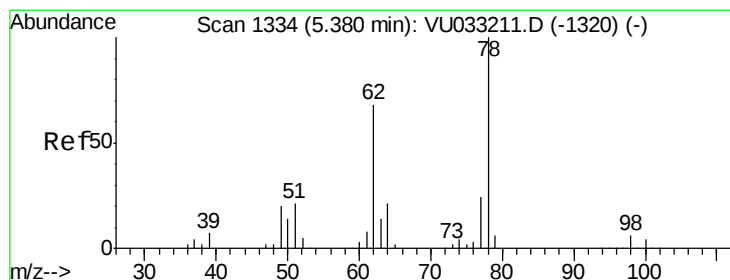
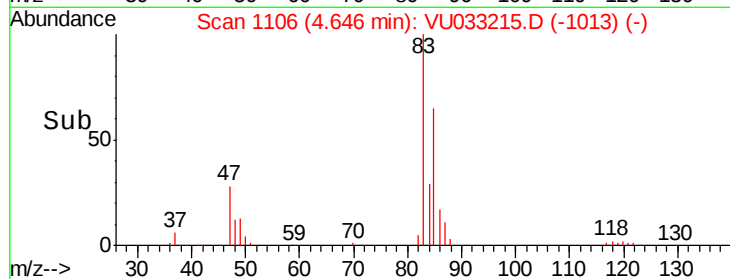
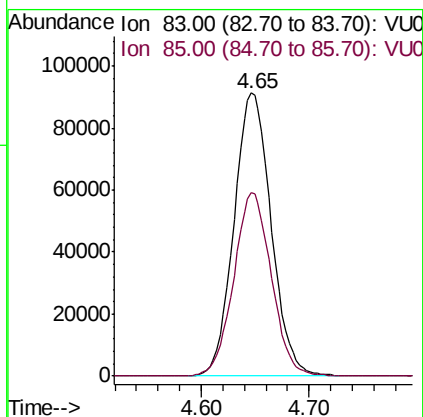
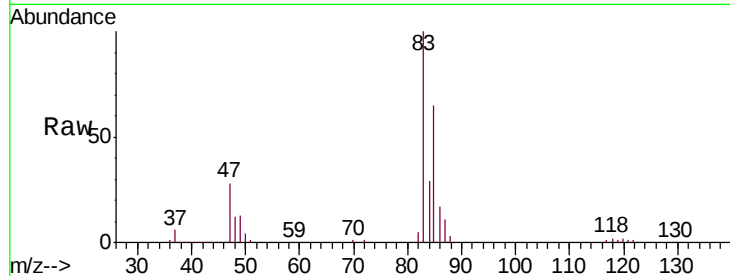




#25
Chloroform
Concen: 46.244 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033215.D
Acq: 12 Jul 2019 11:36

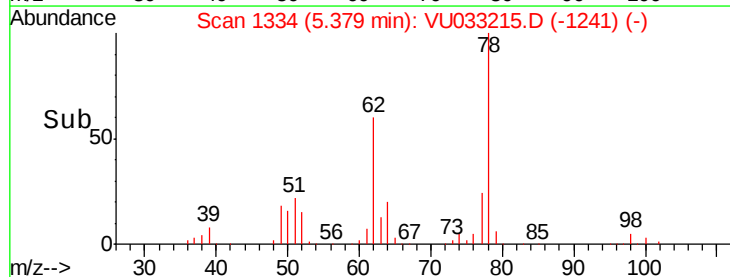
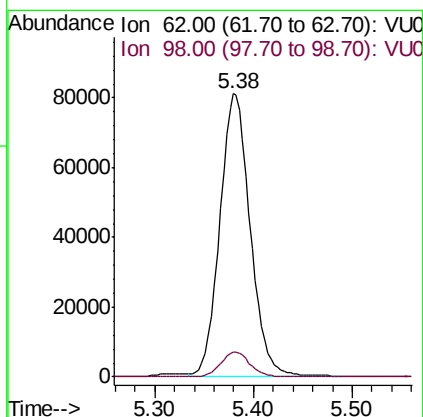
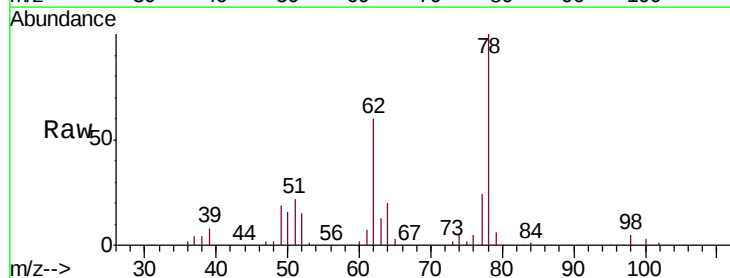
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

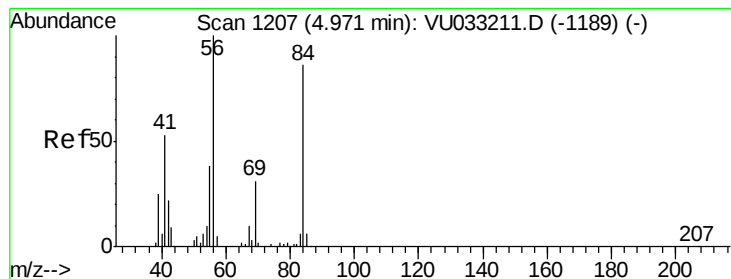
Tgt Ion: 83 Resp: 218989
Ion Ratio Lower Upper
83 100
85 64.8 45.4 84.4



#27
1,2-Dichloroethane
Concen: 47.564 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VU033215.D
Acq: 12 Jul 2019 11:36

Tgt Ion: 62 Resp: 174415
Ion Ratio Lower Upper
62 100
98 8.7 7.0 10.6





#29

Cyclohexane

Concen: 51.083 ug/L

RT: 4.97 min Scan# 1207

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

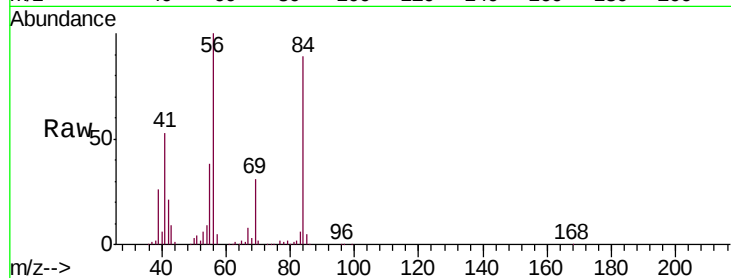
Tgt Ion: 56 Resp: 184242

Ion Ratio Lower Upper

56 100

69 31.1 24.7 37.1

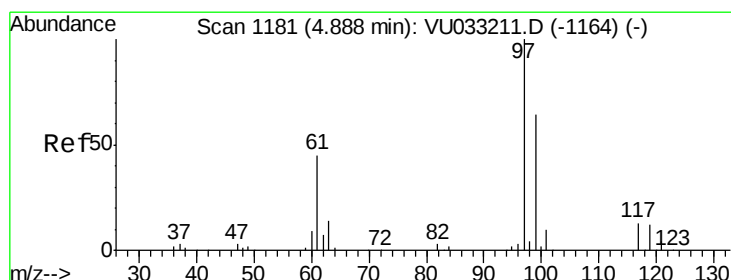
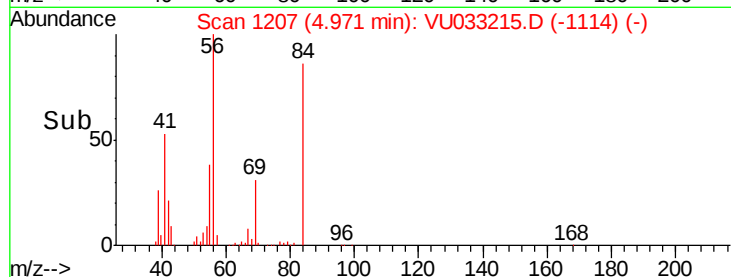
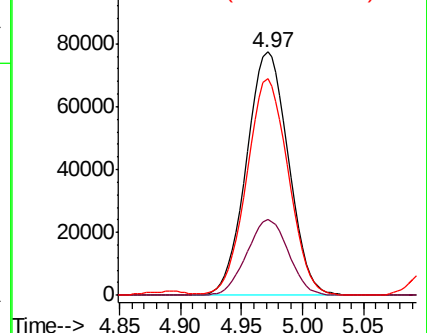
84 88.2 70.2 105.2



Abundance Ion 56.00 (55.70 to 56.70): VU033215.D (-1189) (-)

Ion 69.00 (68.70 to 69.70): VU033215.D (-1189) (-)

Ion 84.00 (83.70 to 84.70): VU033215.D (-1189) (-)



#30

1,1,1-Trichloroethane

Concen: 48.734 ug/L

RT: 4.89 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

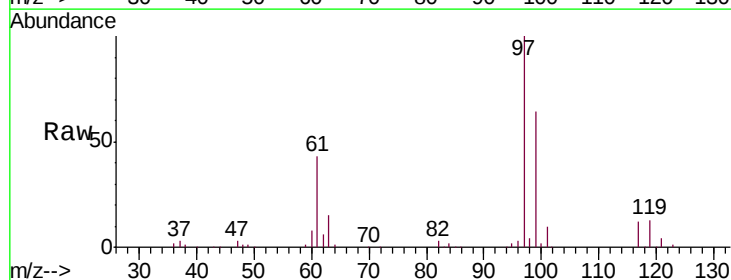
Tgt Ion: 97 Resp: 188190

Ion Ratio Lower Upper

97 100

99 63.4 51.5 77.3

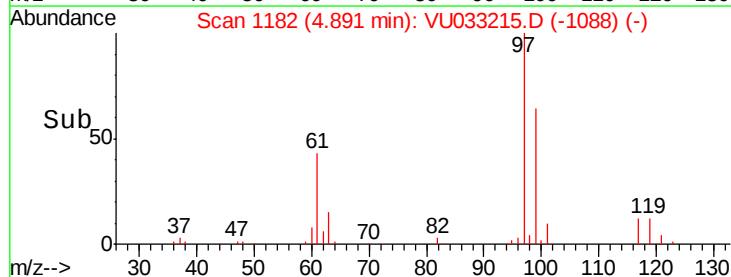
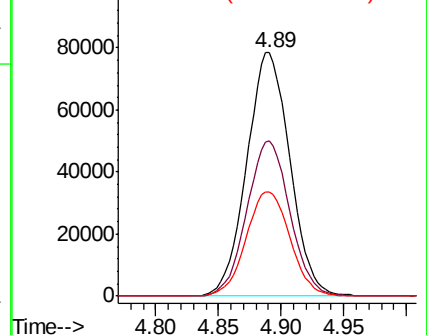
61 43.7 36.4 54.6

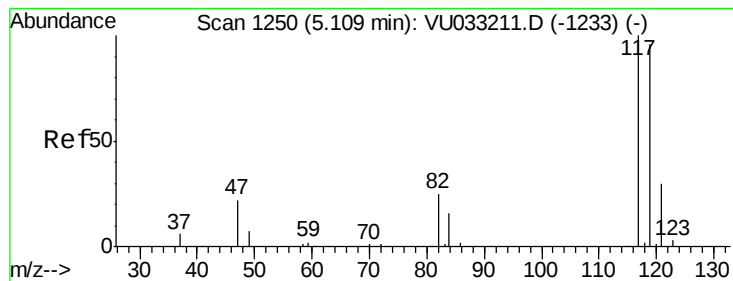


Abundance Ion 97.00 (96.70 to 97.70): VU033215.D (-1189) (-)

Ion 99.00 (98.70 to 99.70): VU033215.D (-1189) (-)

Ion 61.05 (60.75 to 61.75): VU033215.D (-1189) (-)





#31

Carbon tetrachloride

Concen: 48.711 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

Instrument :

MSVOA_U

ClientSampleId :

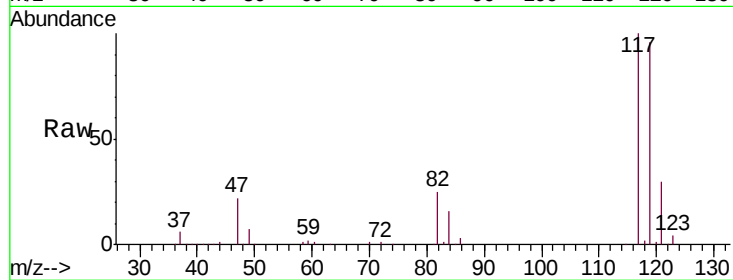
VSTD05047

Tgt Ion:117 Resp: 164609

Ion Ratio Lower Upper

117 100

119 96.8 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.11

80000

60000

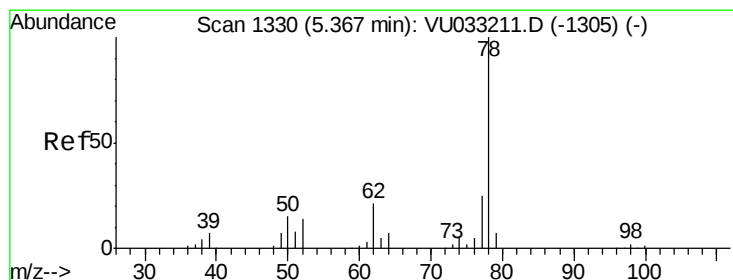
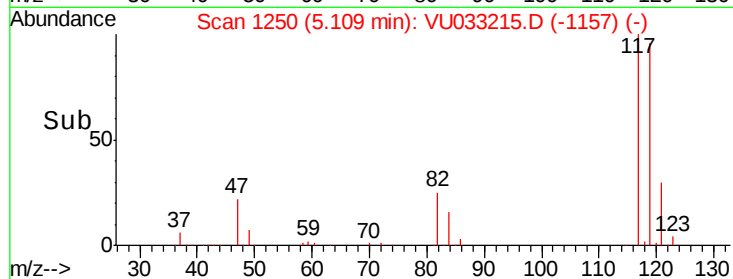
40000

20000

0

Time-->

5.00 5.05 5.10 5.15 5.20



#33

Benzene

Concen: 49.162 ug/L

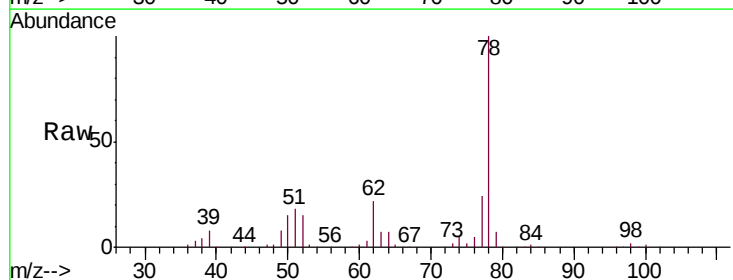
RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

Tgt Ion: 78 Resp: 474549



Abundance Ion 78.00 (77.70 to 78.70): VU0

5.37

250000

200000

150000

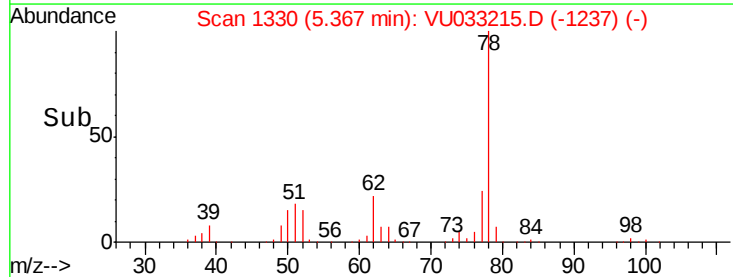
100000

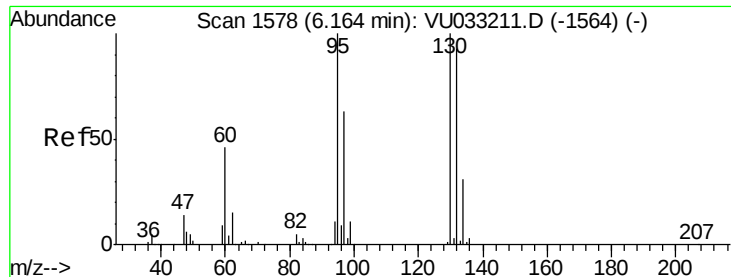
50000

0

Time-->

5.30 5.40

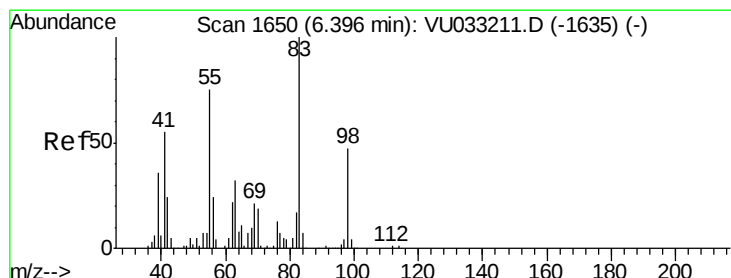
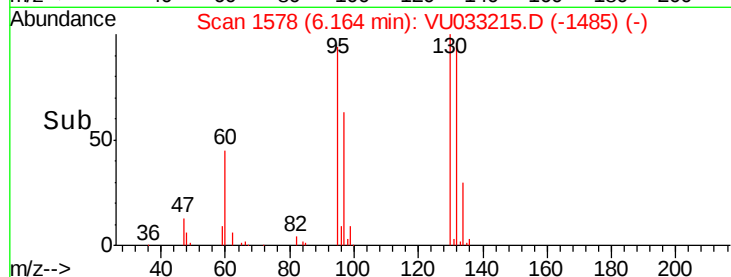
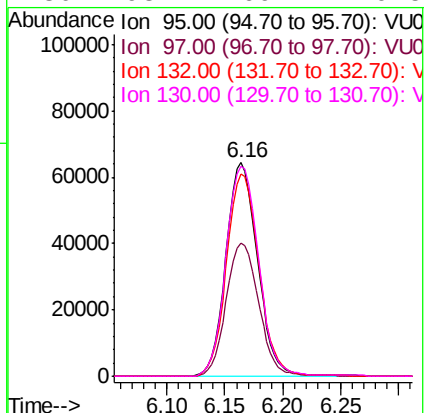
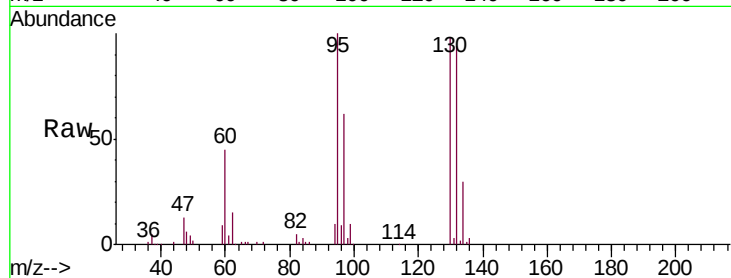




#34
 Trichloroethene
 Concen: 48.323 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VU033215.D
 Acq: 12 Jul 2019 11:36

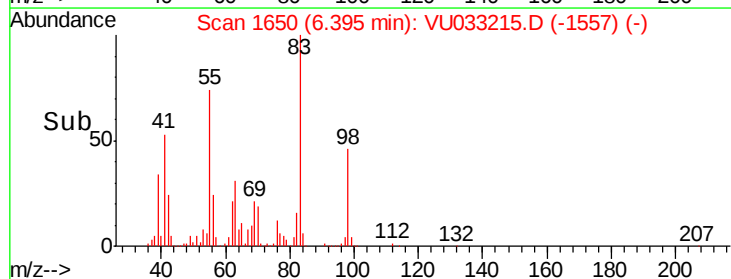
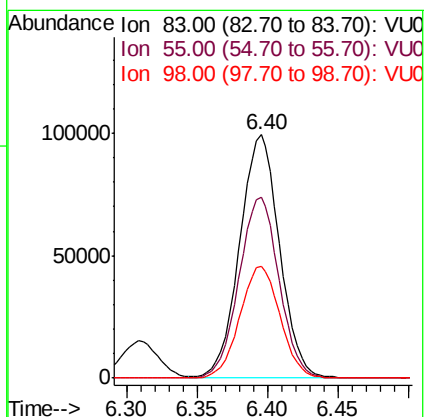
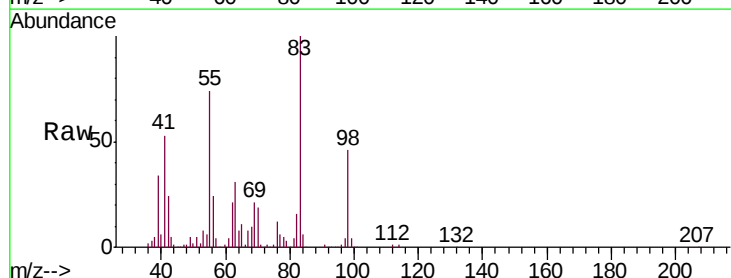
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

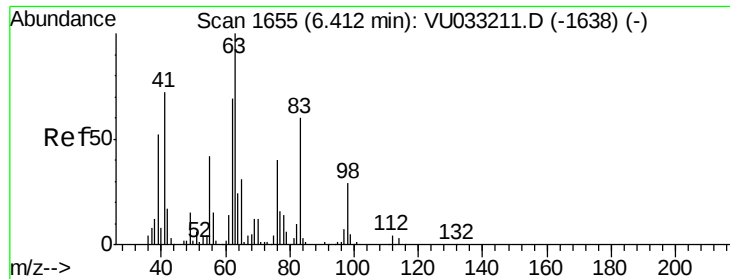
Tgt Ion:	95	Resp:	121988
Ion	Ratio	Lower	Upper
95	100		
97	62.4	43.8	81.4
132	94.5	65.5	121.6
130	98.4	69.7	129.5



#35
 Methylcyclohexane
 Concen: 50.419 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. -0.00 min
 Lab File: VU033215.D
 Acq: 12 Jul 2019 11:36

Tgt Ion:	83	Resp:	194974
Ion	Ratio	Lower	Upper
83	100		
55	75.4	60.5	90.7
98	46.7	37.4	56.0

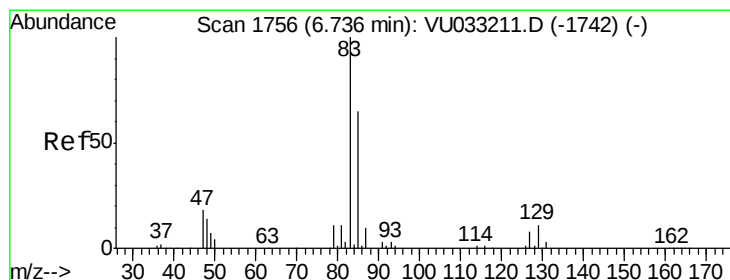
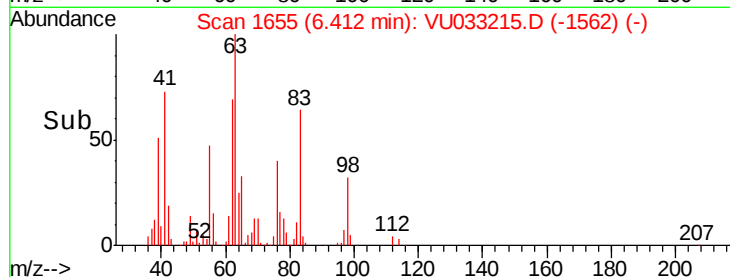
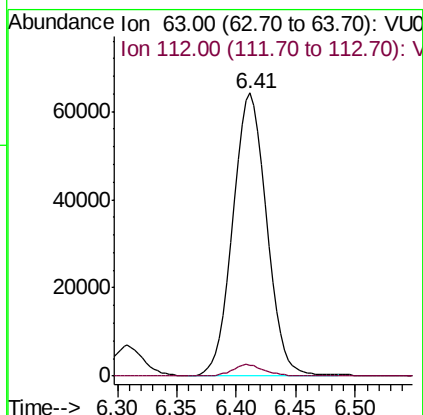
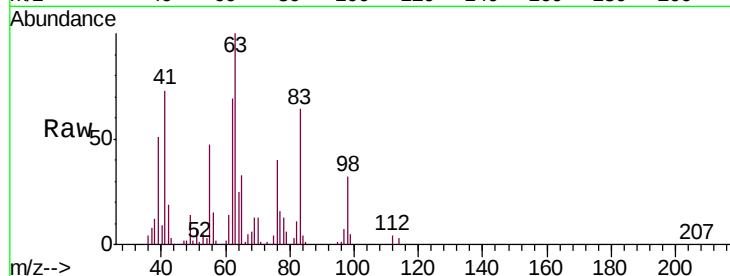




#37
 1,2-Dichloropropane
 Concen: 48.109 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033215.D
 Acq: 12 Jul 2019 11:36

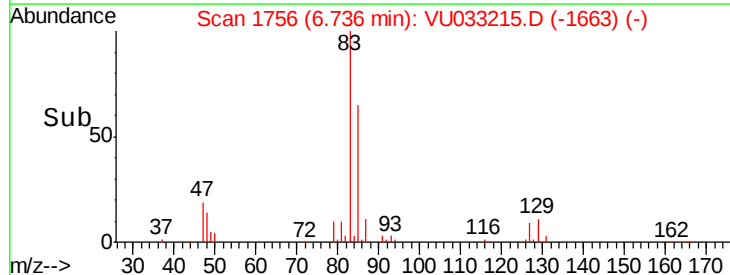
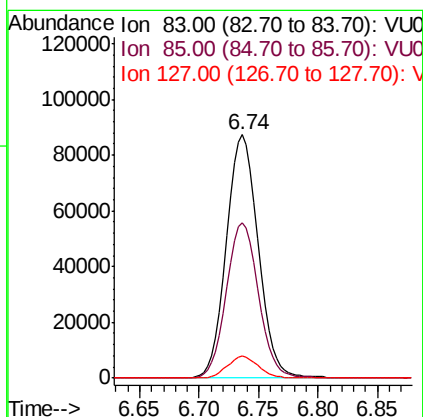
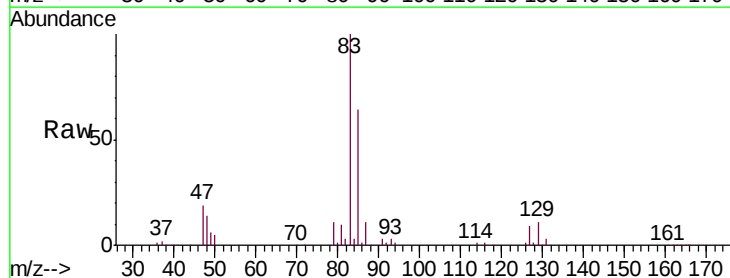
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

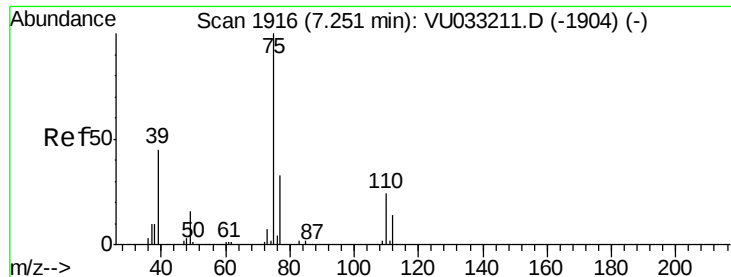
Tgt Ion: 63 Resp: 125939
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.2 4.8



#38
 Bromodichloromethane
 Concen: 48.197 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU033215.D
 Acq: 12 Jul 2019 11:36

Tgt Ion: 83 Resp: 162749
 Ion Ratio Lower Upper
 83 100
 85 63.8 45.8 85.0
 127 8.9 6.8 10.2

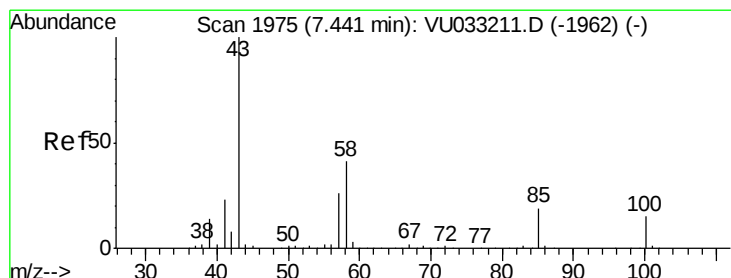
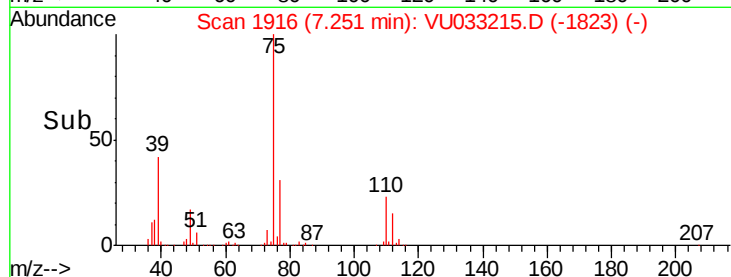
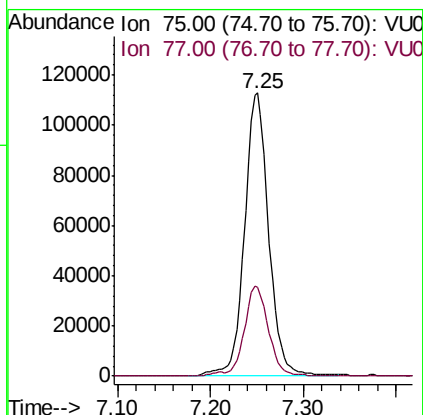
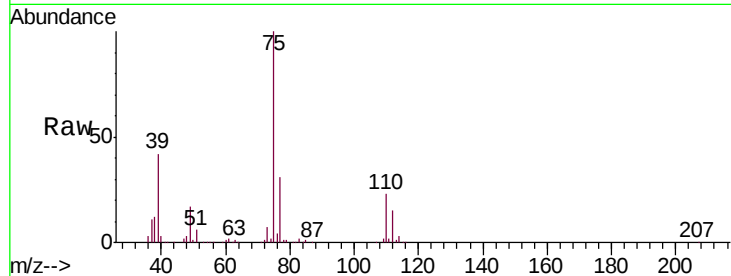




#39
 cis-1,3-Dichloropropene
 Concen: 50.777 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VU033215.D
 Acq: 12 Jul 2019 11:36

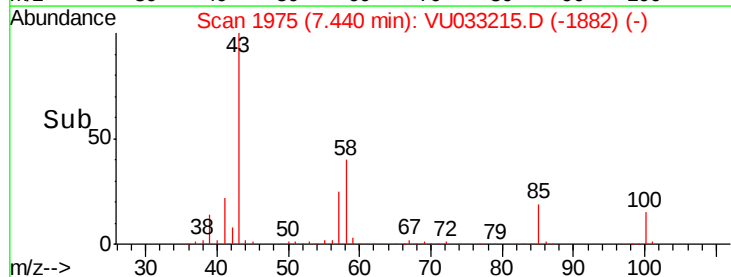
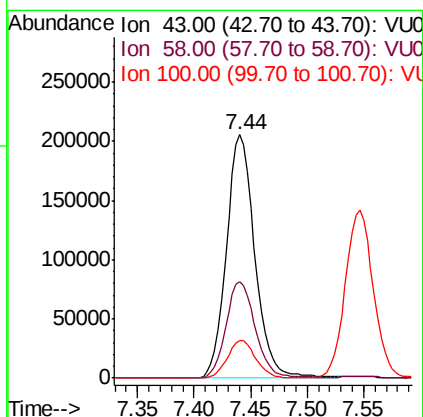
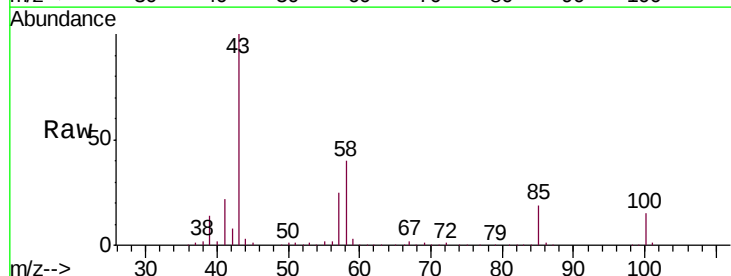
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

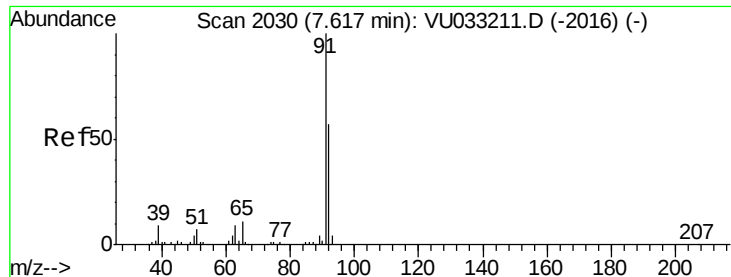
Tgt Ion: 75 Resp: 203802
 Ion Ratio Lower Upper
 75 100
 77 31.4 23.1 42.9



#40
 4-Methyl-2-pentanone
 Concen: 102.434 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. -0.00 min
 Lab File: VU033215.D
 Acq: 12 Jul 2019 11:36

Tgt Ion: 43 Resp: 359718
 Ion Ratio Lower Upper
 43 100
 58 40.9 33.3 49.9
 100 15.5 12.1 18.1





#42

Toluene

Concen: 49.710 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

Instrument :

MSVOA_U

ClientSampleId :

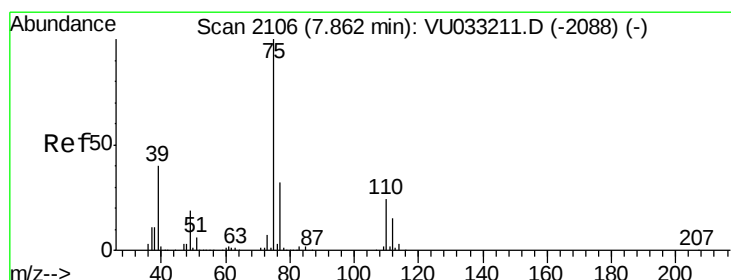
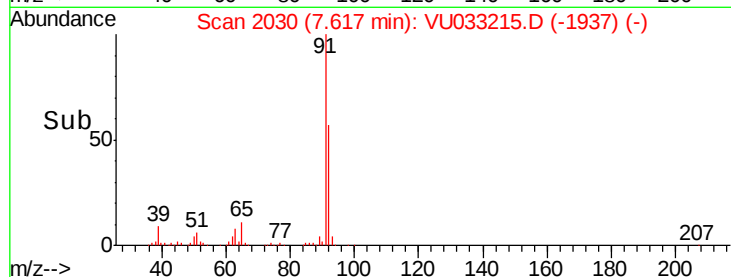
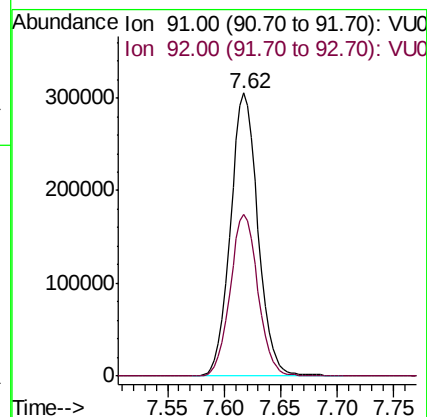
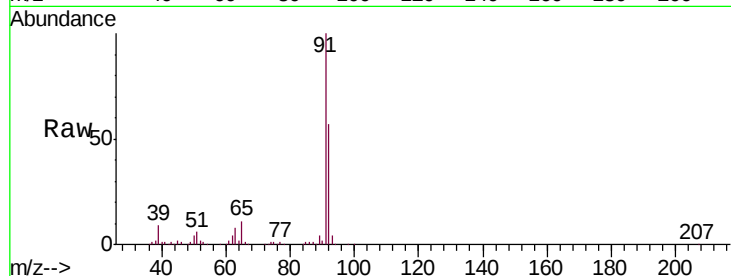
VSTD05047

Tgt Ion: 91 Resp: 517319

Ion Ratio Lower Upper

91 100

92 57.1 39.8 74.0



#44

trans-1,3-Dichloropropene

Concen: 51.064 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033215.D

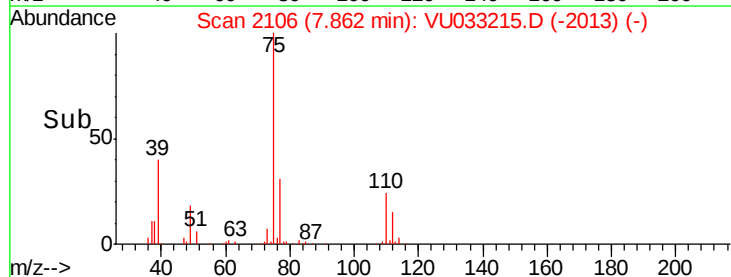
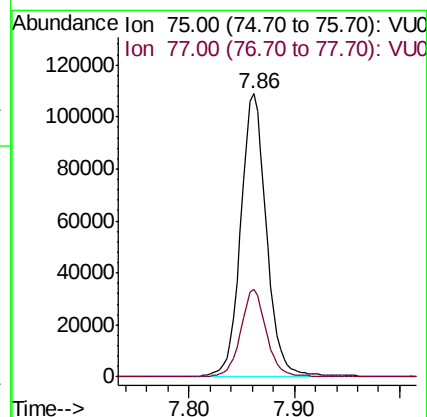
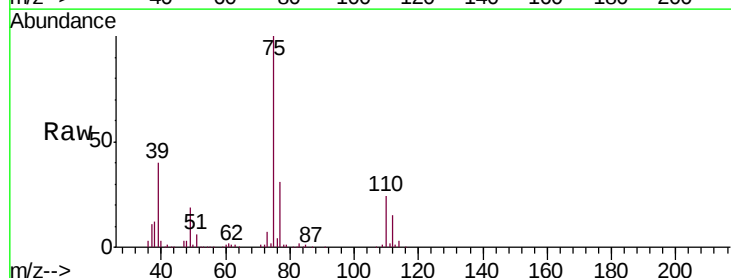
Acq: 12 Jul 2019 11:36

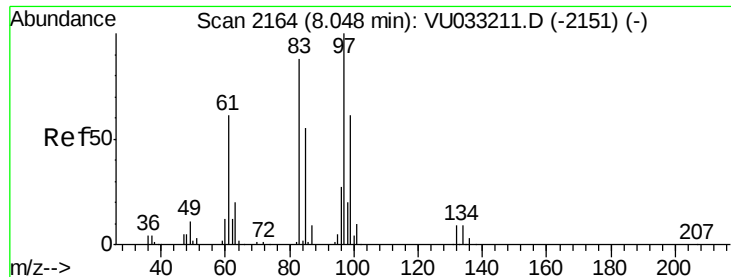
Tgt Ion: 75 Resp: 184835

Ion Ratio Lower Upper

75 100

77 31.0 22.4 41.6

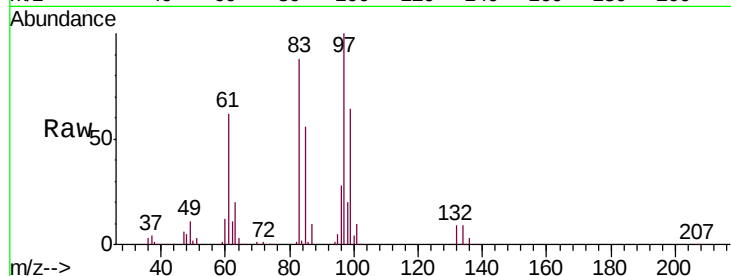




#45
 1,1,2-Trichloroethane
 Concen: 48.060 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU033215.D
 Acq: 12 Jul 2019 11:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Tgt Ion:	97	Resp:	118988
Ion	Ratio	Lower	Upper
97	100		
99	63.9	43.0	79.8
83	88.0	61.5	114.3
85	56.4	38.8	72.0



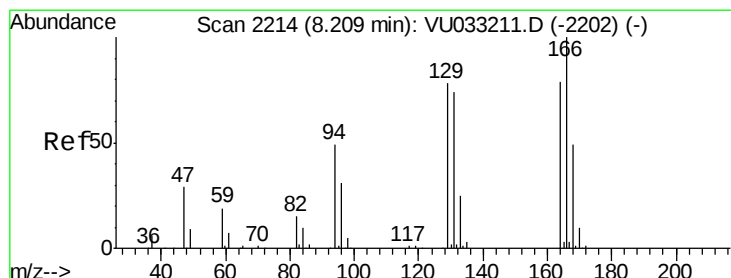
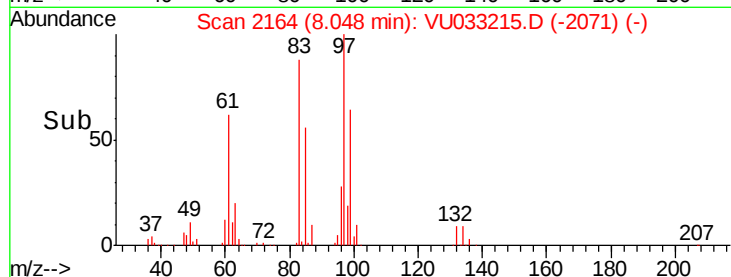
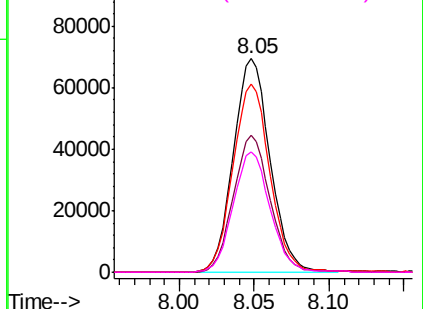
Abundance

Ion 97.00 (96.70 to 97.70): VU033215.D (-2151) (-)

Ion 99.00 (98.70 to 99.70): VU033215.D (-2151) (-)

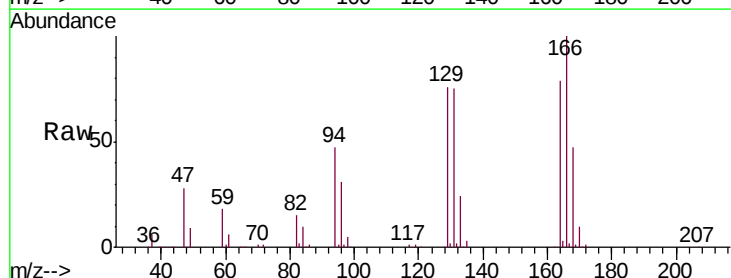
Ion 83.00 (82.70 to 83.70): VU033215.D (-2151) (-)

Ion 85.00 (84.70 to 85.70): VU033215.D (-2151) (-)



#46
 Tetrachloroethene
 Concen: 49.283 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. -0.00 min
 Lab File: VU033215.D
 Acq: 12 Jul 2019 11:36

Tgt Ion:	164	Resp:	96311
Ion	Ratio	Lower	Upper
164	100		
129	95.9	69.6	129.2
131	94.7	65.7	122.1
166	127.0	88.5	164.4



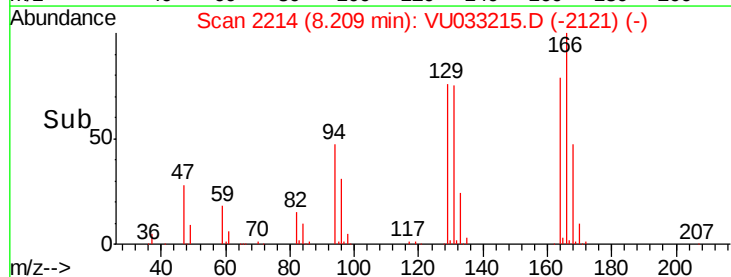
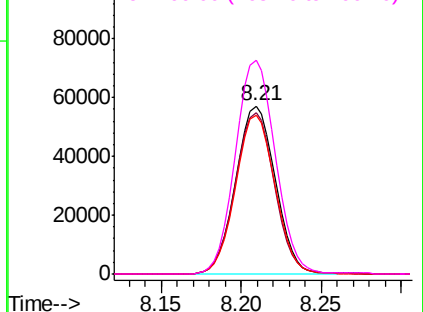
Abundance

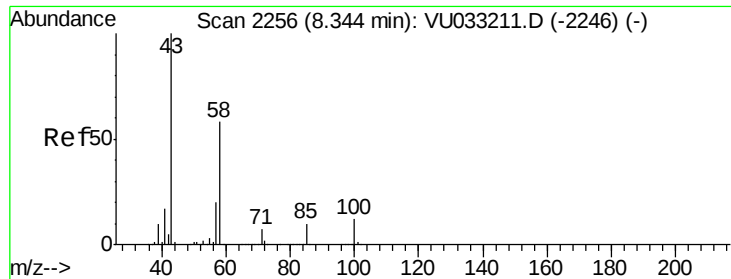
Ion 164.00 (163.70 to 164.70): VU033215.D (-2211) (-)

Ion 129.00 (128.70 to 129.70): VU033215.D (-2211) (-)

Ion 131.00 (130.70 to 131.70): VU033215.D (-2211) (-)

Ion 166.00 (165.70 to 166.70): VU033215.D (-2211) (-)

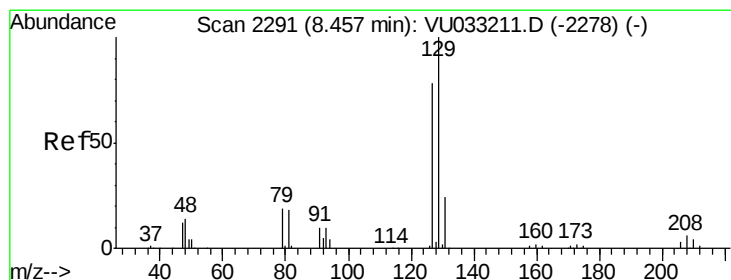
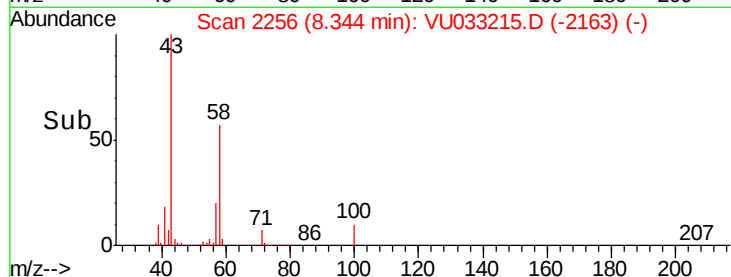
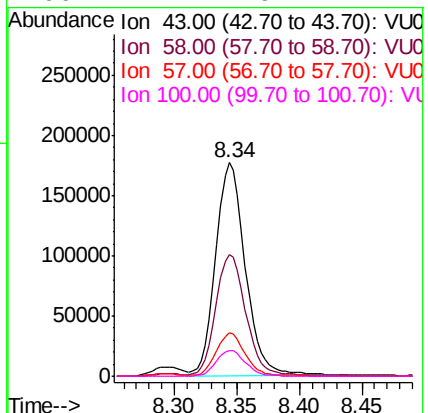
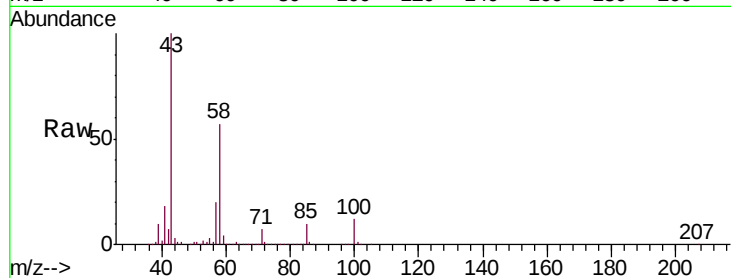




#48
2-Hexanone
Concen: 101.686 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. -0.00 min
Lab File: VU033215.D
Acq: 12 Jul 2019 11:36

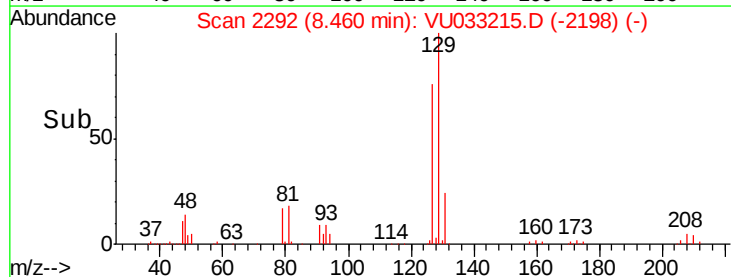
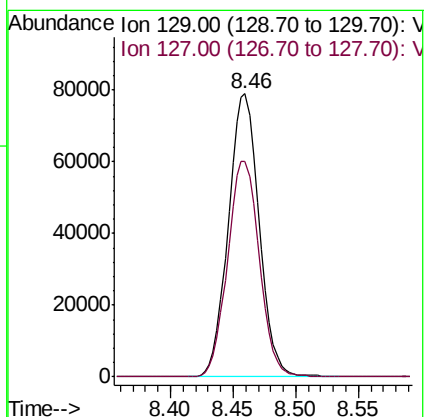
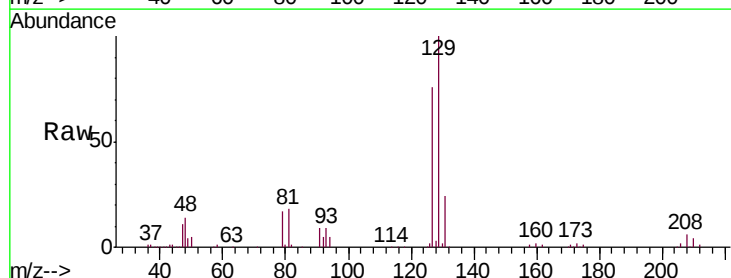
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

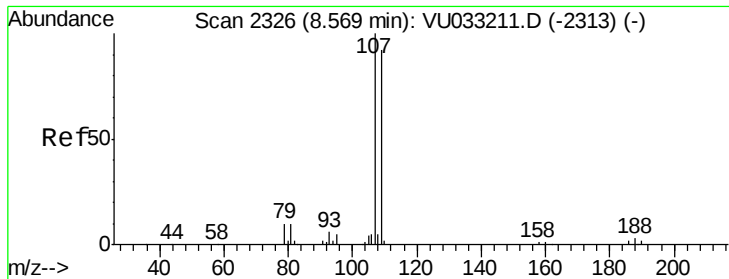
Tgt Ion:	43	Resp:	290915
Ion	Ratio	Lower	Upper
43	100		
58	58.5	46.1	69.1
57	19.5	15.8	23.8
100	12.1	9.4	14.2



#49
Dibromochloromethane
Concen: 48.815 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033215.D
Acq: 12 Jul 2019 11:36

Tgt Ion:	129	Resp:	134816
Ion	Ratio	Lower	Upper
129	100		
127	76.0	54.3	100.9

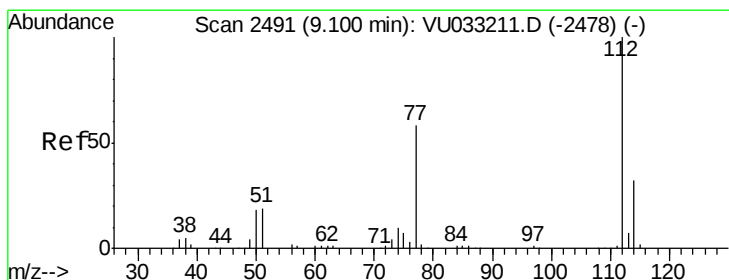
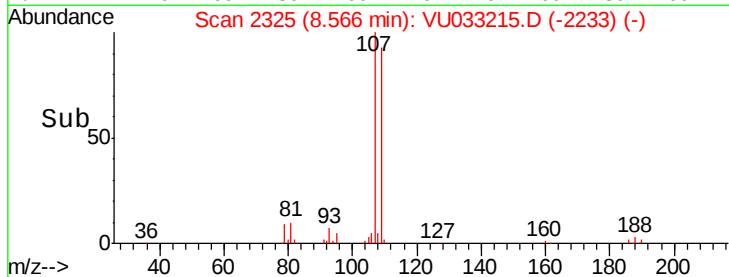
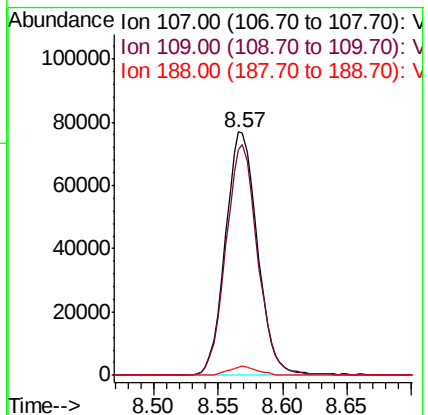
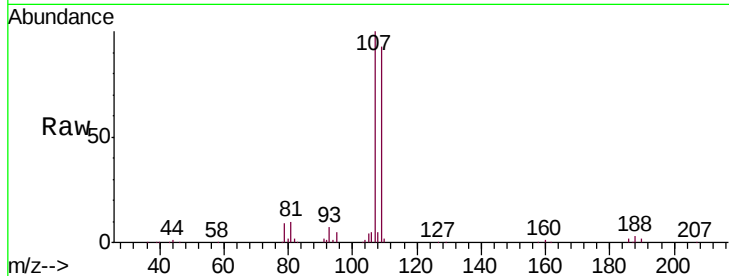




#50
1,2-Dibromoethane
Concen: 49.243 ug/L
RT: 8.57 min Scan# 2325
Delta R.T. -0.00 min
Lab File: VU033215.D
Acq: 12 Jul 2019 11:36

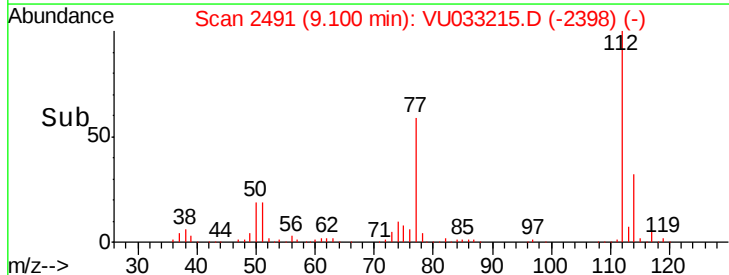
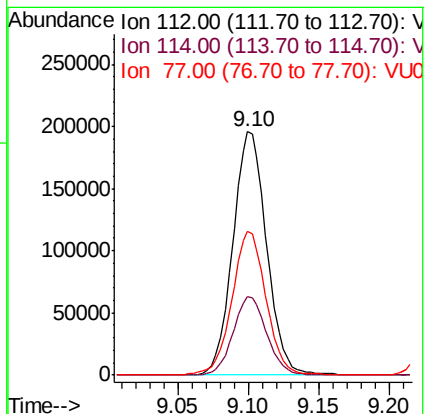
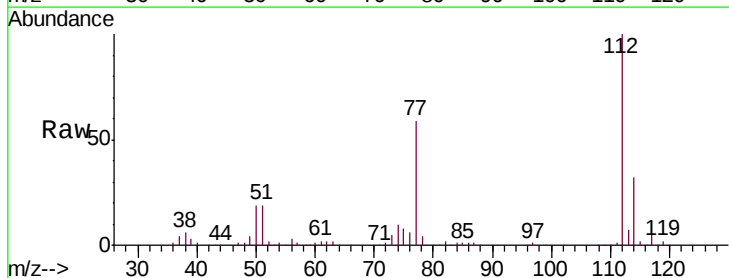
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

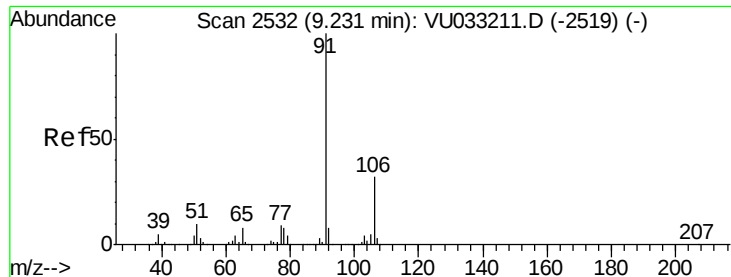
Tgt Ion:107 Resp: 132927
Ion Ratio Lower Upper
107 100
109 93.0 64.2 119.2
188 3.4 2.6 4.0



#51
Chlorobenzene
Concen: 48.306 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. -0.00 min
Lab File: VU033215.D
Acq: 12 Jul 2019 11:36

Tgt Ion:112 Resp: 328121
Ion Ratio Lower Upper
112 100
114 32.2 22.3 41.3
77 59.3 47.2 70.8





#52

Ethylbenzene

Concen: 50.462 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

Instrument :

MSVOA_U

ClientSampleId :

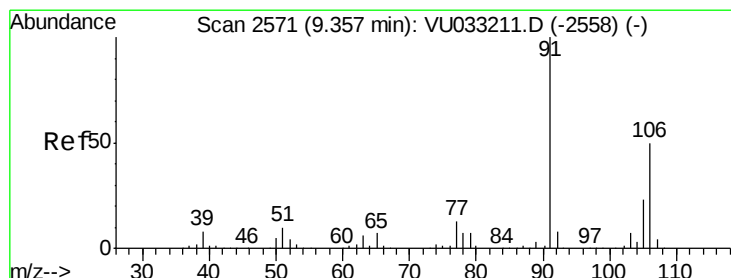
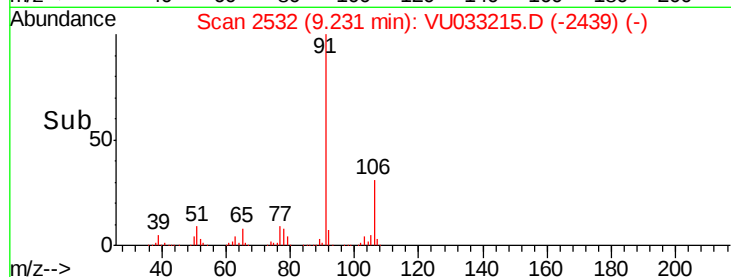
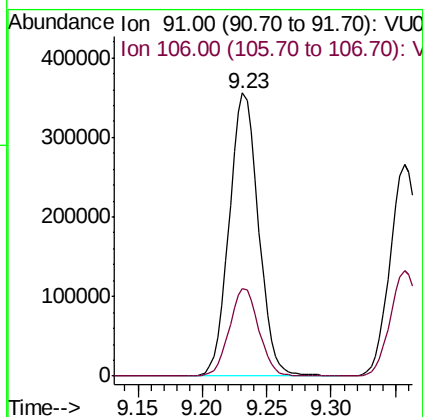
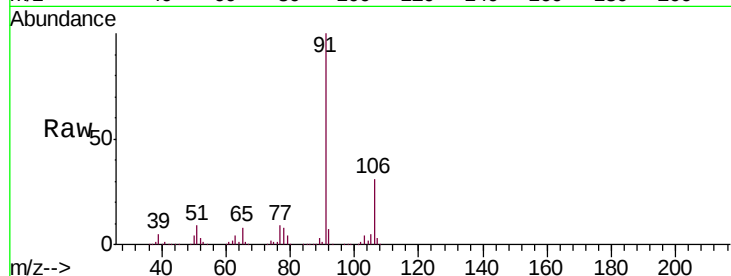
VSTD05047

Tgt Ion: 91 Resp: 561932

Ion Ratio Lower Upper

91 100

106 31.1 22.2 41.2



#53

m,p-Xylene

Concen: 50.683 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033215.D

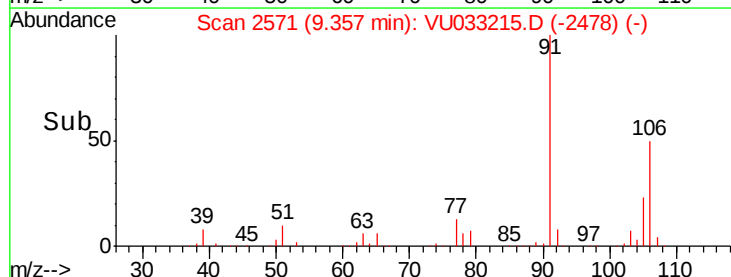
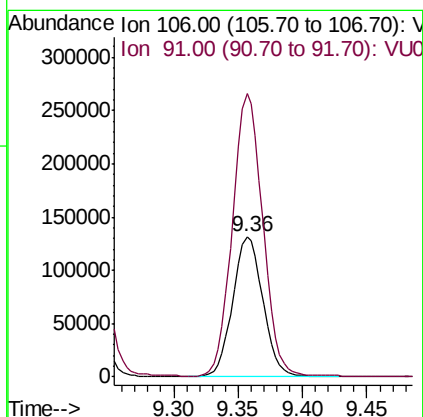
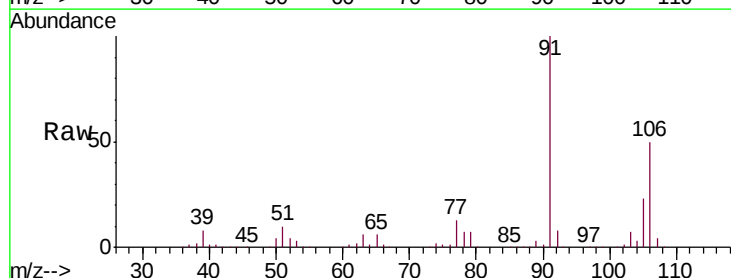
Acq: 12 Jul 2019 11:36

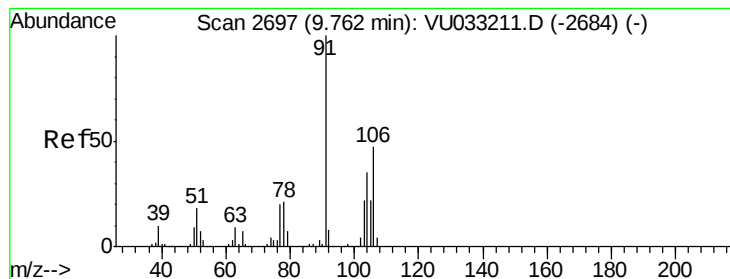
Tgt Ion: 106 Resp: 213775

Ion Ratio Lower Upper

106 100

91 201.3 141.3 262.3





#54

o-xylene

Concen: 50.374 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

Instrument :

MSVOA_U

ClientSampleId :

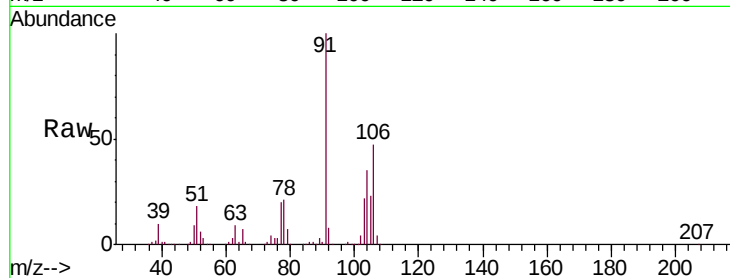
VSTD05047

Tgt Ion:106 Resp: 210975

Ion Ratio Lower Upper

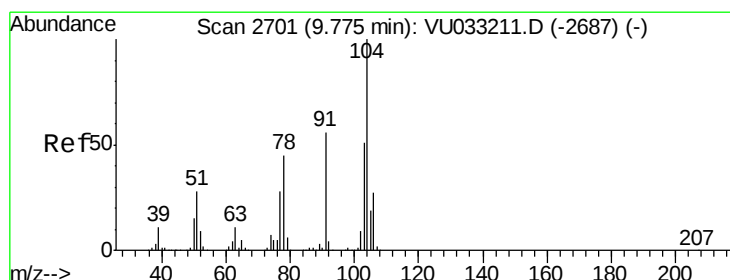
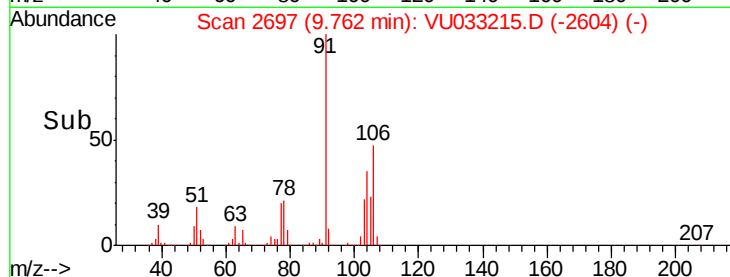
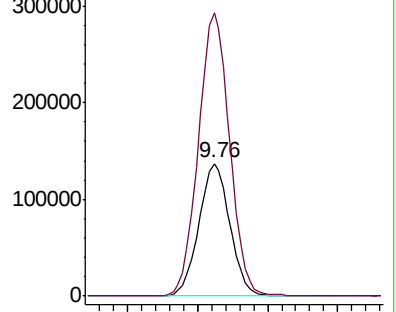
106 100

91 213.7 150.5 279.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 51.365 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033215.D

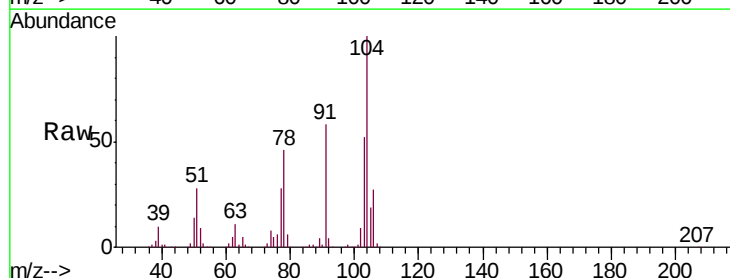
Acq: 12 Jul 2019 11:36

Tgt Ion:104 Resp: 364724

Ion Ratio Lower Upper

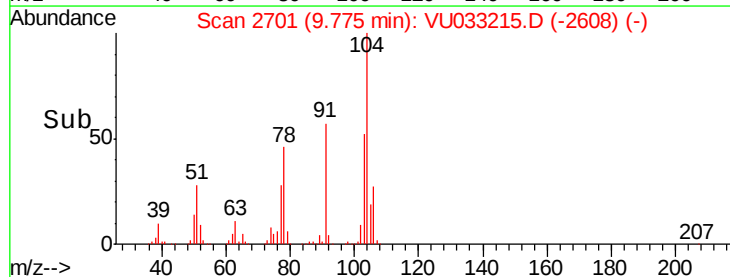
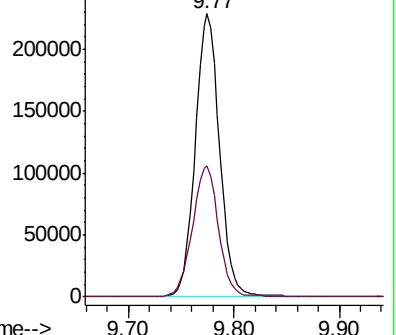
104 100

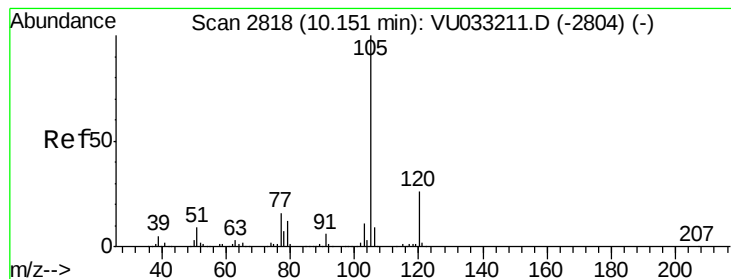
78 46.1 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 51.103 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

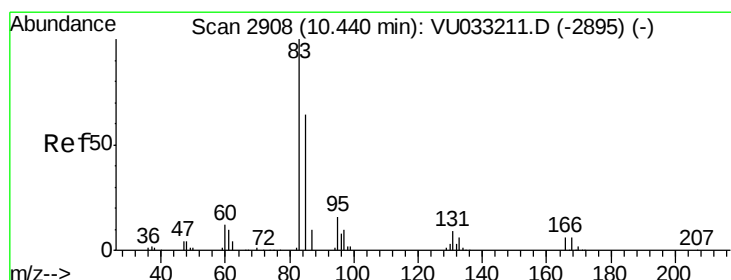
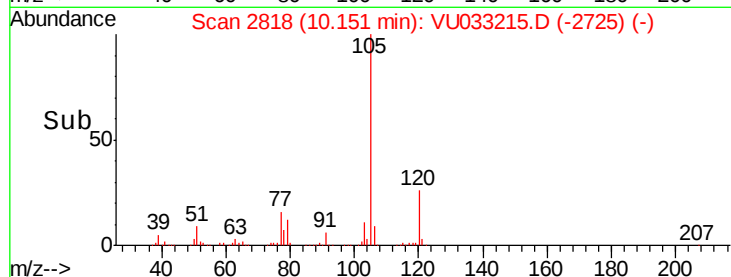
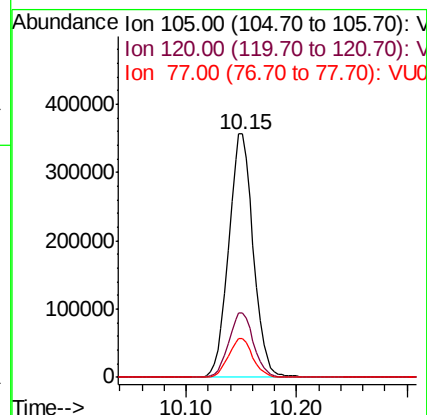
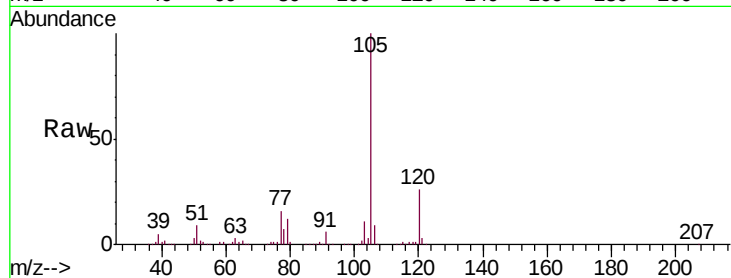
Tgt Ion: 105 Resp: 550750

Ion Ratio Lower Upper

105 100

120 26.7 21.2 31.8

77 16.0 12.9 19.3



#58

1,1,2,2-Tetrachloroethane

Concen: 48.816 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

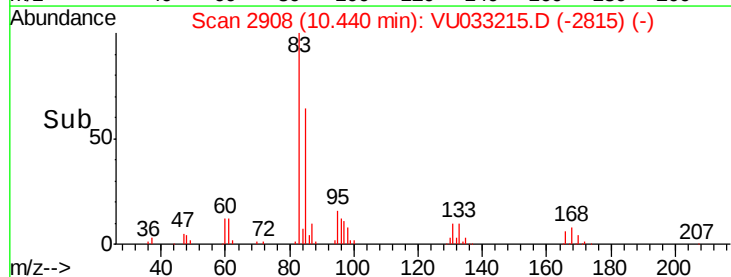
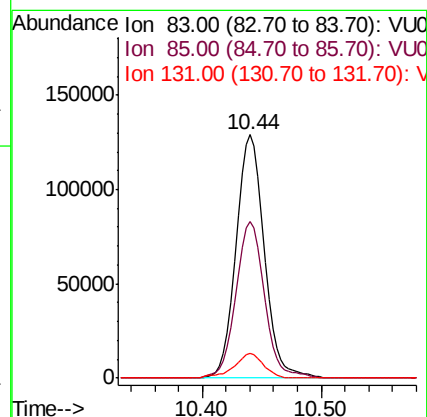
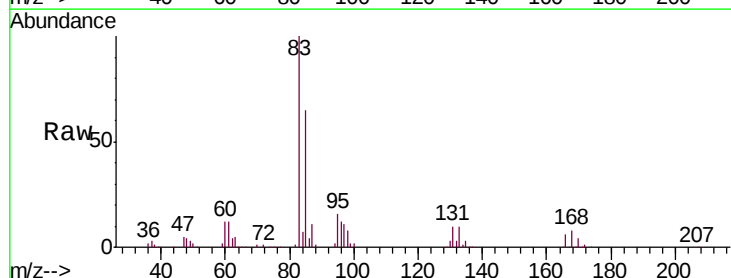
Tgt Ion: 83 Resp: 212292

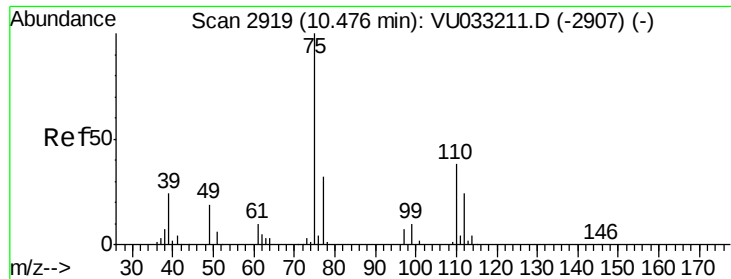
Ion Ratio Lower Upper

83 100

85 64.6 44.9 83.3

131 10.0 7.6 11.4





#59

1,2,3-Trichloropropane

Concen: 48.422 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

Instrument :

MSVOA_U

ClientSampleId :

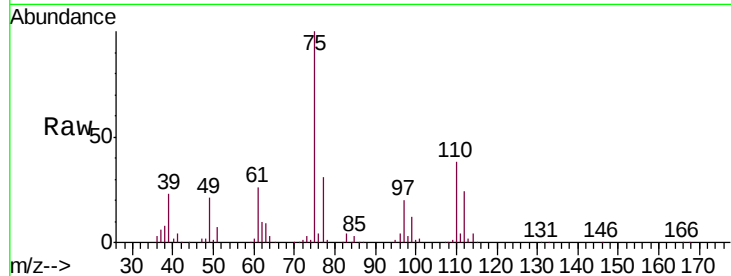
VSTD05047

Tgt Ion: 75 Resp: 165019

Ion Ratio Lower Upper

75 100

77 32.7 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU033211.D (-2907) (-)

Ion 77.00 (76.70 to 77.70): VU033211.D (-2907) (-)

10.48

120000

100000

80000

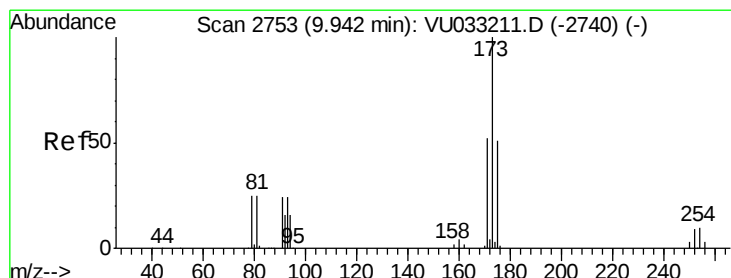
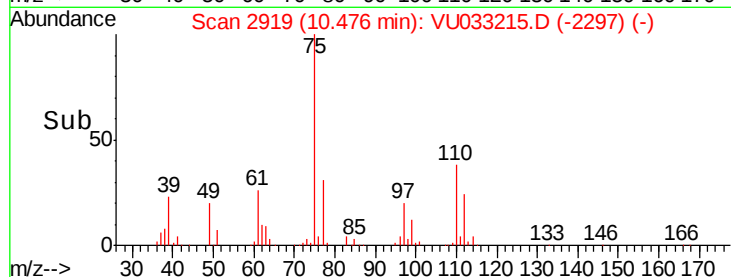
60000

40000

20000

0

Time-->



#61

Bromoform

Concen: 49.621 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

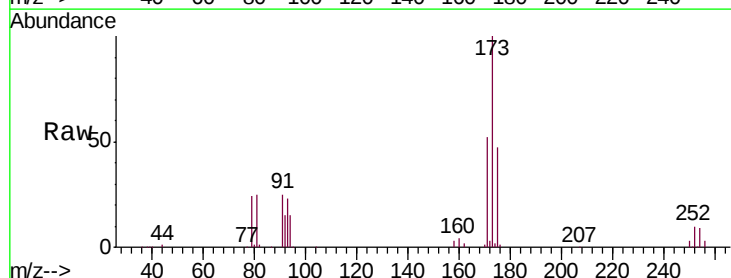
Tgt Ion: 173 Resp: 101127

Ion Ratio Lower Upper

173 100

175 47.7 40.0 60.0

254 8.7 7.3 10.9



Abundance Ion 173.00 (172.70 to 173.70): VU033211.D (-2740) (-)

Ion 175.00 (174.70 to 175.70): VU033211.D (-2740) (-)

Ion 254.00 (253.70 to 254.70): VU033211.D (-2740) (-)

9.94

80000

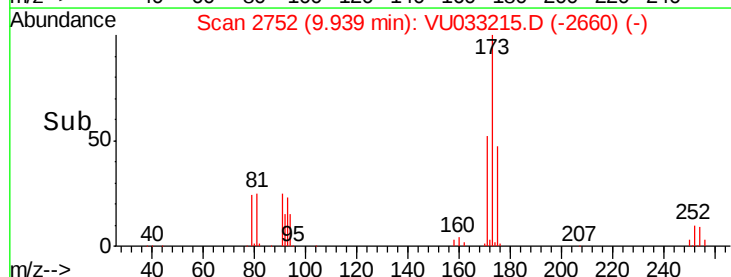
60000

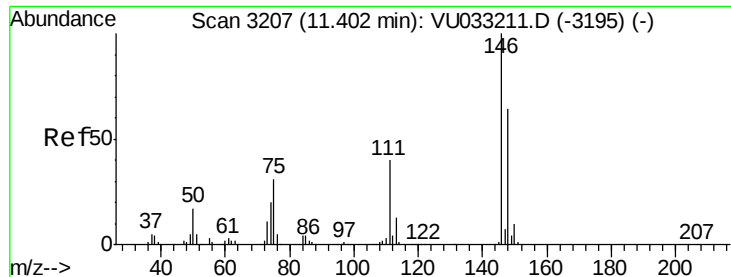
40000

20000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 49.380 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

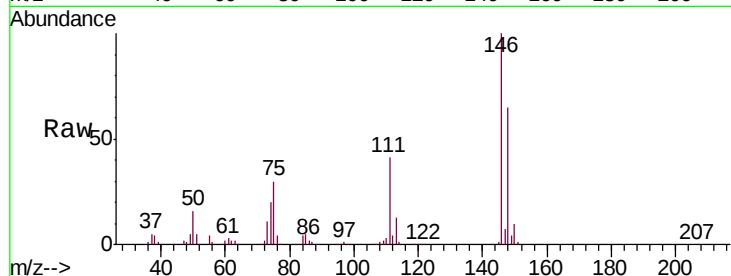
Tgt Ion:146 Resp: 253649

Ion Ratio Lower Upper

146 100

111 40.7 28.0 52.0

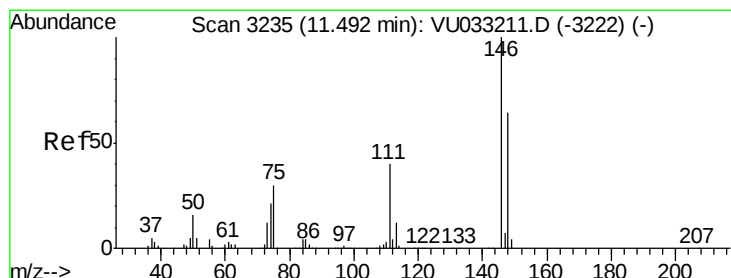
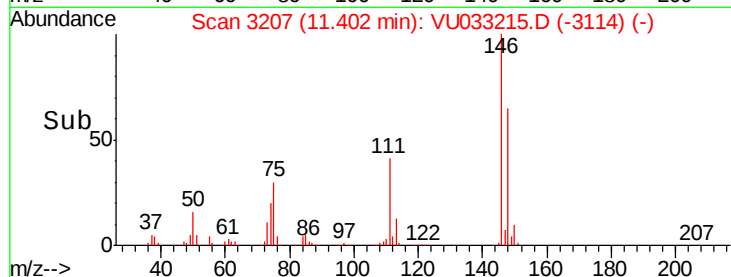
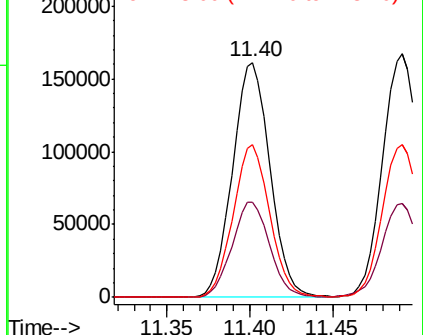
148 65.1 44.7 83.1



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



#63

1,4-Dichlorobenzene

Concen: 49.065 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

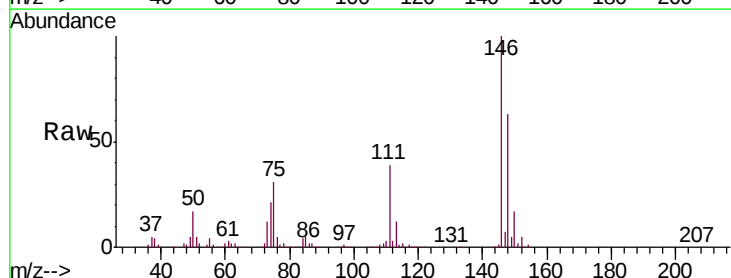
Tgt Ion:146 Resp: 263520

Ion Ratio Lower Upper

146 100

111 38.8 27.8 51.6

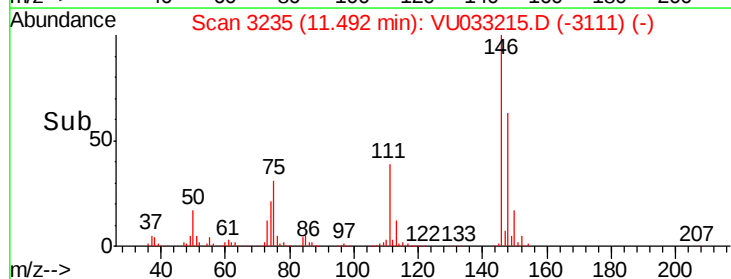
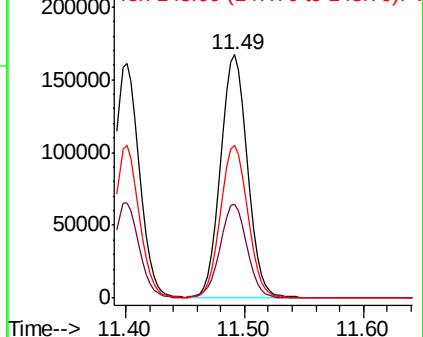
148 62.8 44.6 82.8

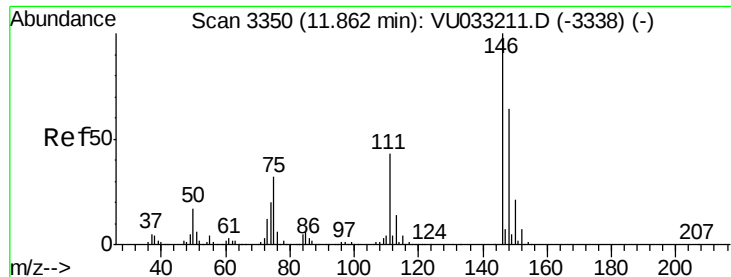


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

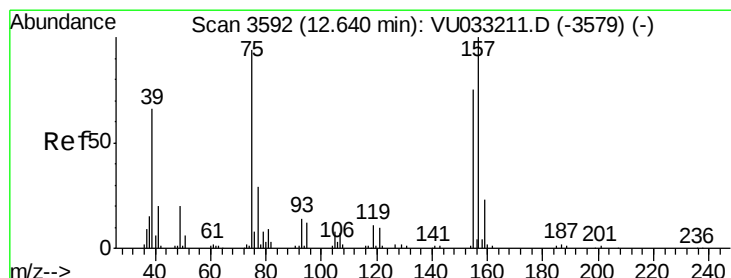
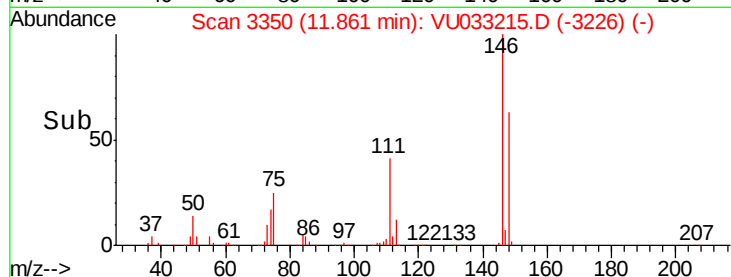
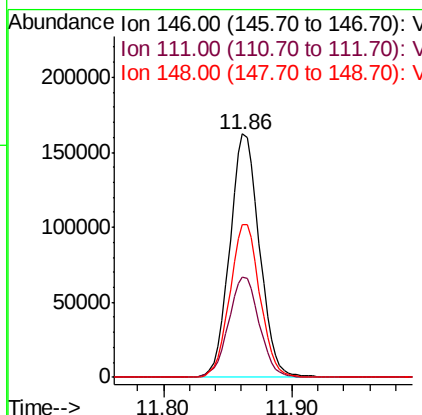
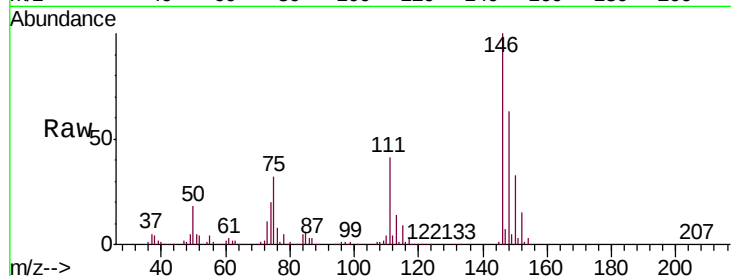




#65
 1,2-Dichlorobenzene
 Concen: 49.186 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. -0.00 min
 Lab File: VU033215.D
 Acq: 12 Jul 2019 11:36

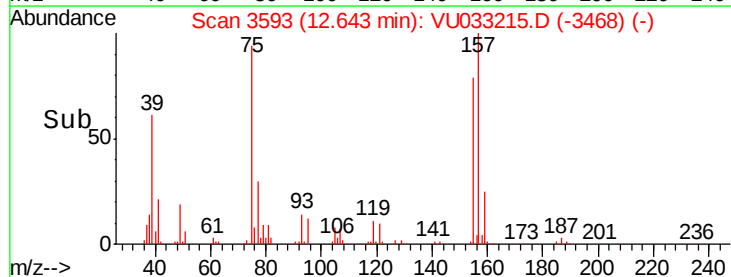
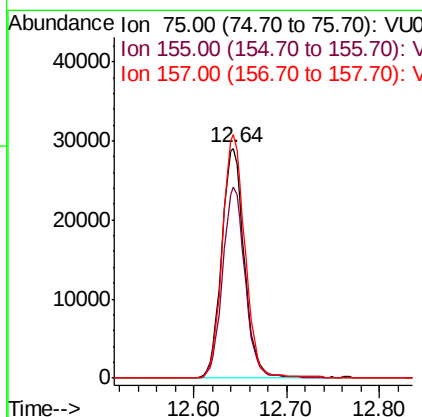
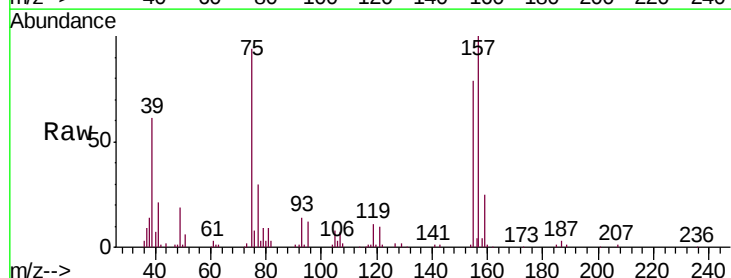
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

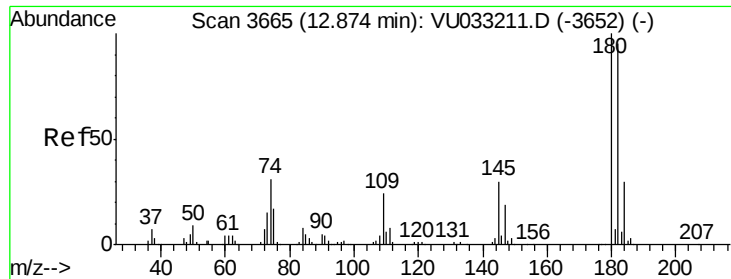
Tgt Ion: 146 Resp: 259116
 Ion Ratio Lower Upper
 146 100
 111 41.4 34.3 51.5
 148 62.6 51.5 77.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 49.114 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. 0.00 min
 Lab File: VU033215.D
 Acq: 12 Jul 2019 11:36

Tgt Ion: 75 Resp: 49383
 Ion Ratio Lower Upper
 75 100
 155 83.2 63.5 95.3
 157 106.0 84.6 127.0

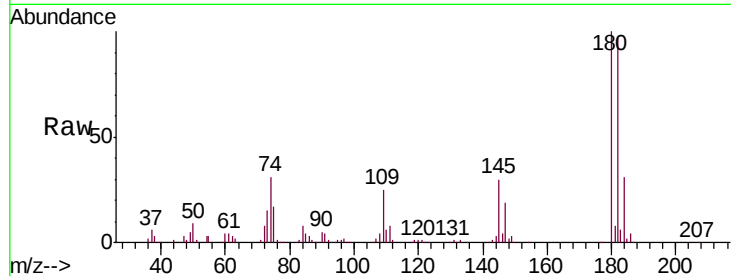




#67
 1,3,5-Trichlorobenzene
 Concen: 51.509 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033215.D
 Acq: 12 Jul 2019 11:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Tgt Ion:	180	Resp:	191217
Ion	Ratio	Lower	Upper
180	100		
182	96.2	75.5	113.3
184	30.2	24.2	36.2
145	29.8	24.1	36.1



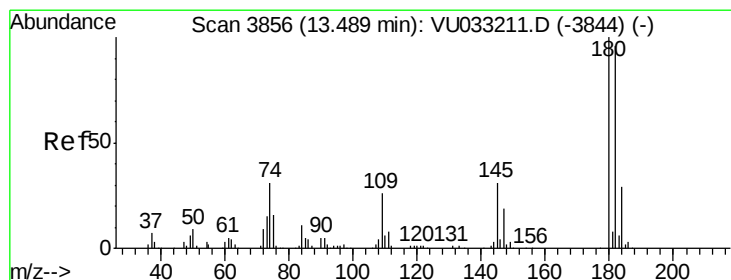
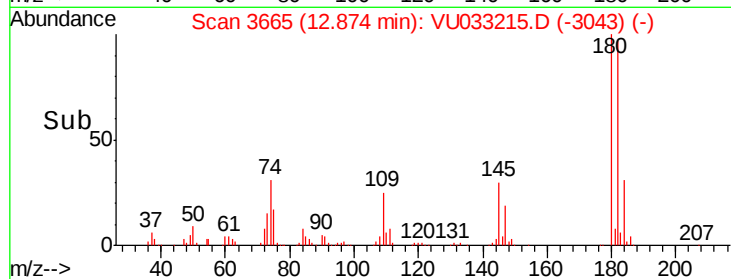
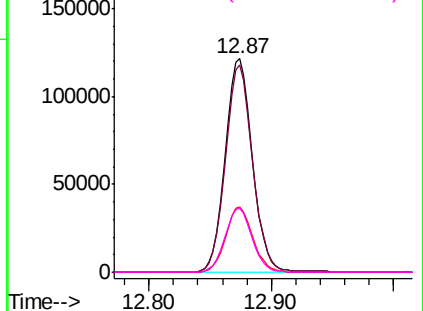
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

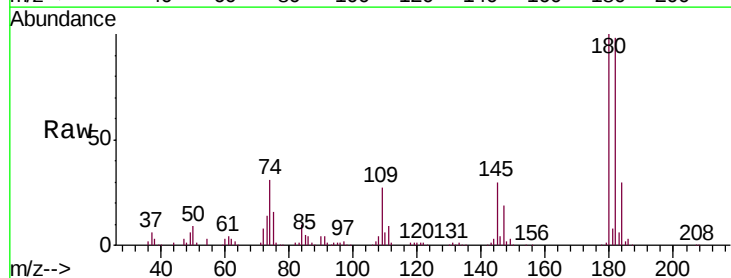
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 52.831 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. -0.00 min
 Lab File: VU033215.D
 Acq: 12 Jul 2019 11:36

Tgt Ion:	180	Resp:	171309
Ion	Ratio	Lower	Upper
180	100		
182	96.8	76.5	114.7
145	30.0	24.6	36.8

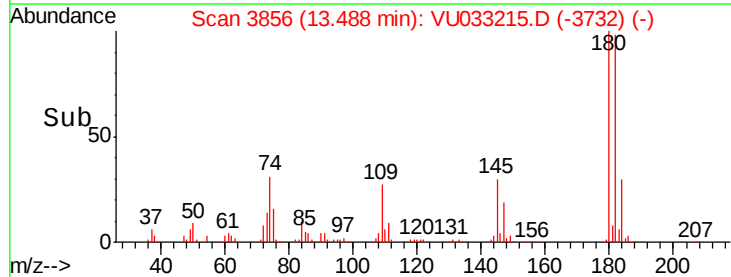
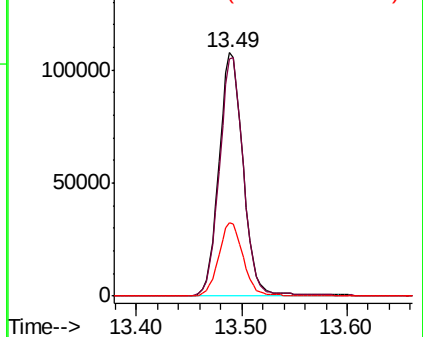


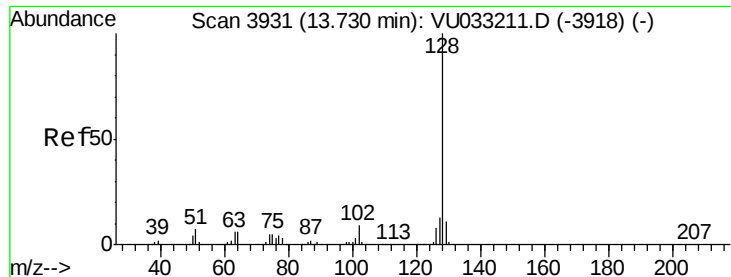
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 55.548 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

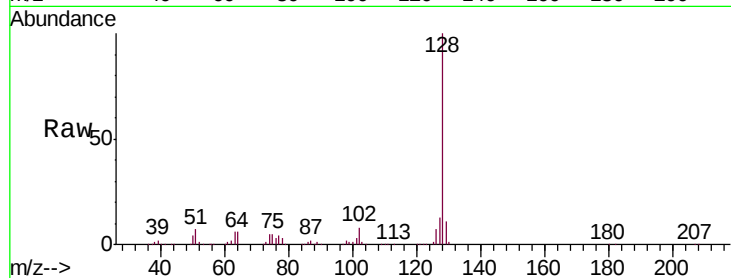
Tgt Ion:128 Resp: 577514

Ion Ratio Lower Upper

128 100

127 13.4 10.8 16.2

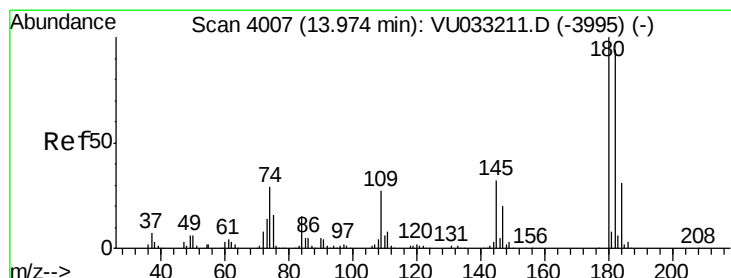
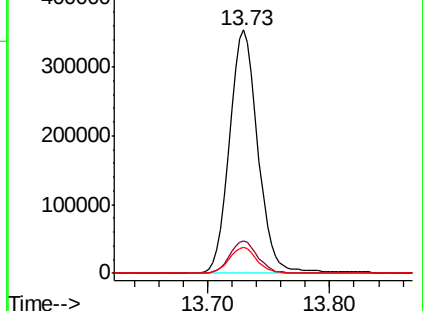
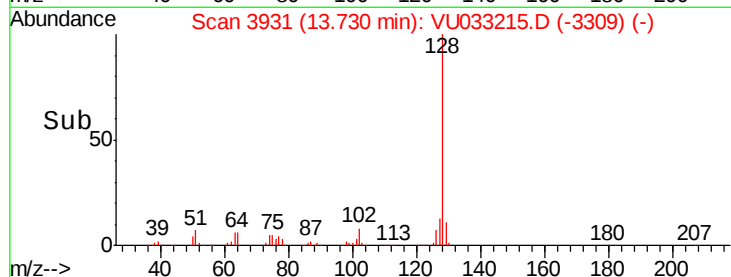
129 10.6 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 51.076 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. -0.00 min

Lab File: VU033215.D

Acq: 12 Jul 2019 11:36

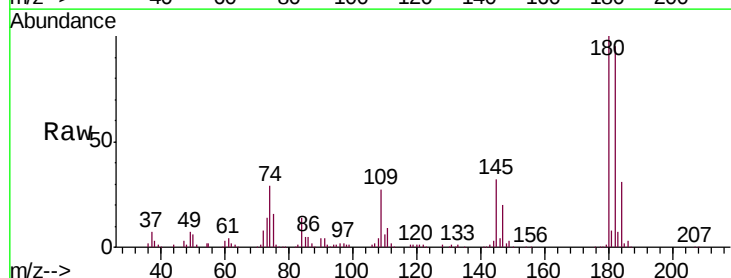
Tgt Ion:180 Resp: 179802

Ion Ratio Lower Upper

180 100

182 94.9 77.4 116.2

145 31.9 26.2 39.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

