

Data File : VU032265.D
Acq On : 23 May 2019 13:36
Operator : JC/SP
Sample : K3001-05MSD
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
E3YF0MSD

Quant Time: May 24 01:38:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 24 01:34:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	374826	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	384092	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	154416	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	86768	4.12	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.40%
7) Chloroethane-d5	1.67	69	92522	4.71	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.20%
11) 1,1-Dichloroethene-d2	2.27	63	183683	4.73	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	94.60%
20) 2-Butanone-d5	4.19	46	281185	47.36	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.72%
24) Chloroform-d	4.64	84	245760	4.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.40%
26) 1,2-Dichloroethane-d4	5.31	65	135477	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.20%
32) Benzene-d6	5.33	84	477792	4.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.60%
36) 1,2-Dichloropropane-d6	6.33	67	160845	4.54	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.80%
41) Toluene-d8	7.56	98	432444	4.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.60%
43) trans-1,3-Dichloropropene-	7.85	79	58524	4.30	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.00%
46) 2-Hexanone-d5	8.31	63	237580	46.39	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.78%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	162860	4.63	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.60%
64) 1,2-Dichlorobenzene-d4	11.86	152	206518	4.85	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.30	85	3440	0.215 ug/L	96
3) Chloromethane	1.33	50	3964	0.247 ug/L	90
9) Trichlorofluoromethane	1.88	101	6642	0.316 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	1913	0.144 ug/L #	17
12) 1,1-Dichloroethene	2.28	96	84399	6.327 ug/L	81
13) Acetone	2.32	43	13848	7.528 ug/L	97
18) trans-1,2-Dichloroethene	2.97	96	4398	0.307 ug/L #	84
19) 1,1-Dichloroethane	3.44	63	158973	7.189 ug/L	96
22) cis-1,2-Dichloroethene	4.22	96	23379	1.673 ug/L	98
25) Chloroform	4.67	83	19166	0.803 ug/L #	73
29) 1,1,1-Trichloroethane	4.91	97	126376	6.339 ug/L	98
31) Carbon tetrachloride	4.91	117	17352	0.988 ug/L	98
33) Benzene	5.38	78	301238	5.798 ug/L	100
34) Trichloroethene	6.18	95	105670	7.578 ug/L	92
35) Methylcyclohexane	6.32	83	37657	1.833 ug/L #	20
37) 1,2-Dichloropropane	6.33	63	17436	1.394 ug/L #	86
38) Bromodichloromethane	6.76	83	5173	0.318 ug/L	91

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 24 01:34:27 2019
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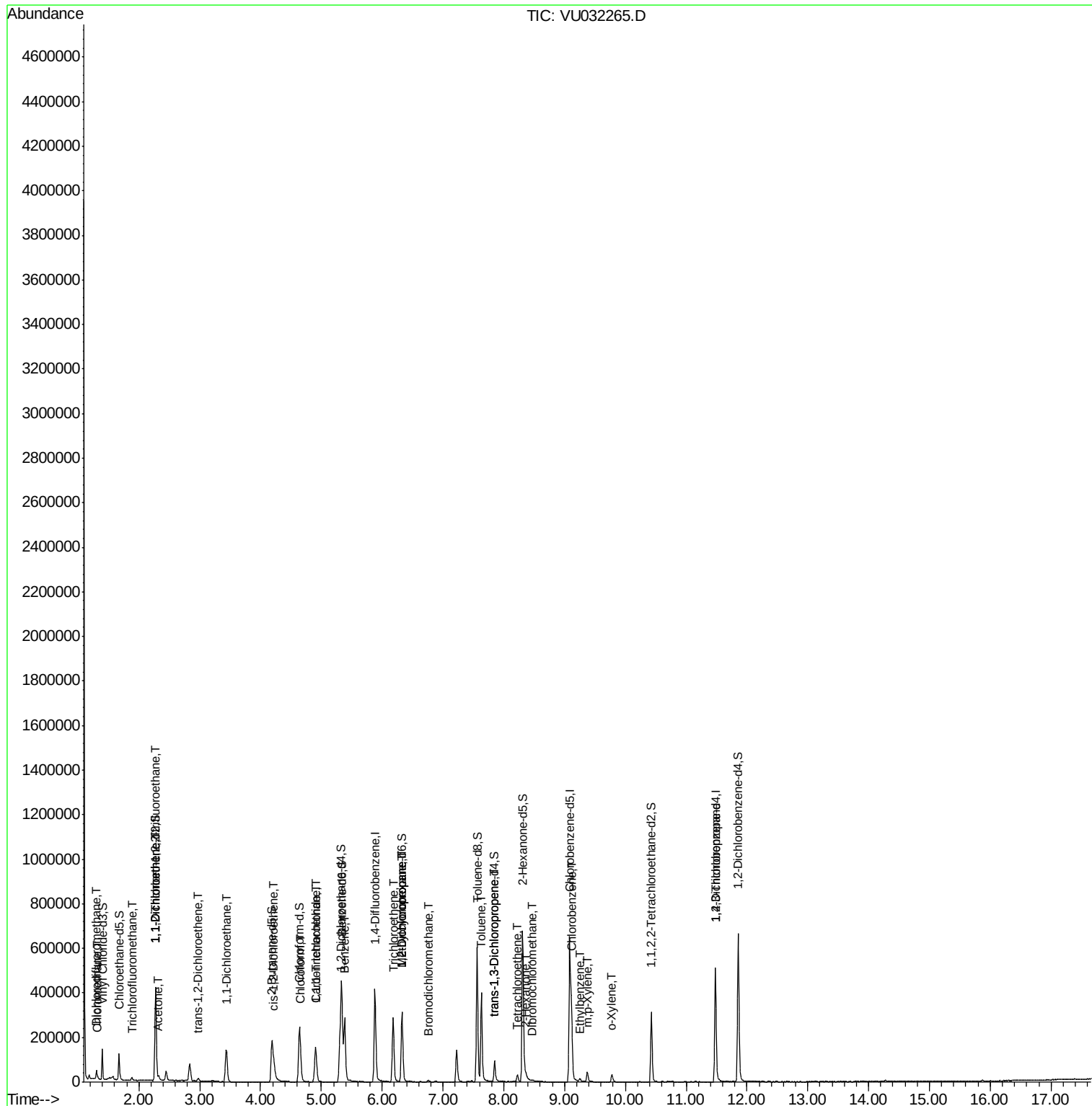
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	314545	5.698	ug/L	96
44) trans-1,3-Dichloropropene	7.85	75	2360	0.169	ug/L	88
47) Tetrachloroethene	8.23	164	8126	0.706	ug/L	92
48) 2-Hexanone	8.37	43	8101	1.670	ug/L #	77
49) Dibromochloromethane	8.47	129	1173	0.107	ug/L	96
51) Chlorobenzene	9.12	112	217890	6.167	ug/L	99
52) Ethylbenzene	9.25	91	8140	0.146	ug/L	92
53) m,p-Xylene	9.37	106	14970	0.724	ug/L	85
54) o-Xylene	9.78	106	9691	0.469	ug/L	96
59) 1,2,3-Trichloropropane	11.48	75	15169	1.862	ug/L	90

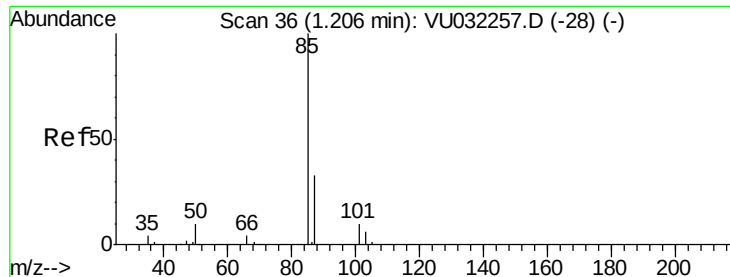
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.215 ug/L

RT: 1.30 min Scan# 66

Delta R.T. 0.10 min

Lab File: VU032265.D

Acq: 23 May 2019 13:36

Instrument :

MSVOA_U

ClientSampleId :

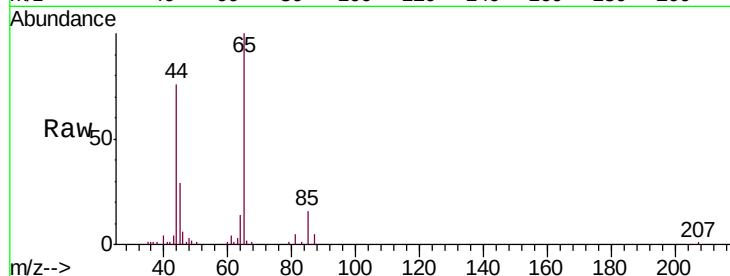
E3YF0MSD

Tgt Ion: 85 Resp: 3440

Ion Ratio Lower Upper

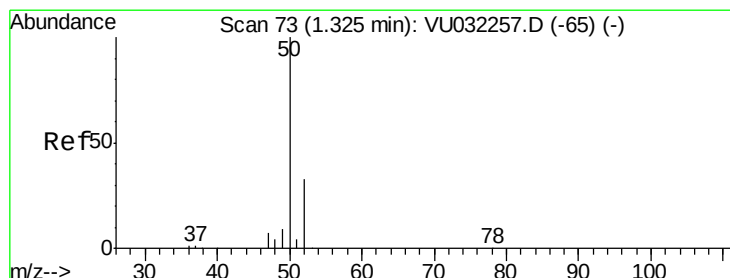
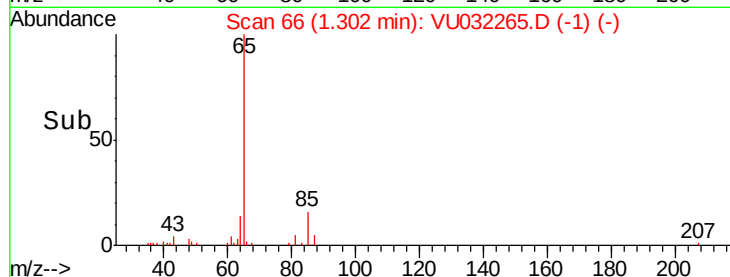
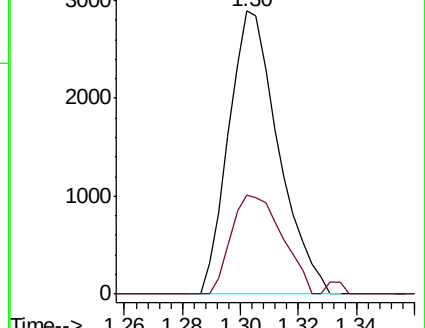
85 100

87 35.7 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VU032265.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU032265.D (-1) (-)



#3

Chloromethane

Concen: 0.247 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU032265.D

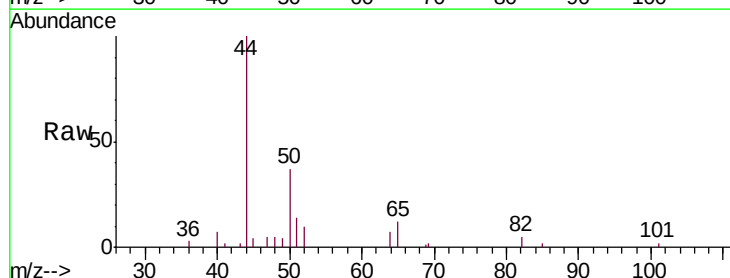
Acq: 23 May 2019 13:36

Tgt Ion: 50 Resp: 3964

Ion Ratio Lower Upper

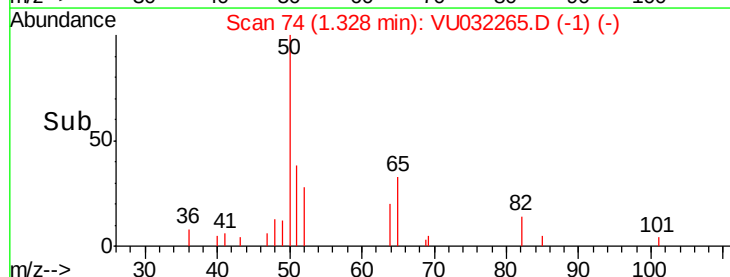
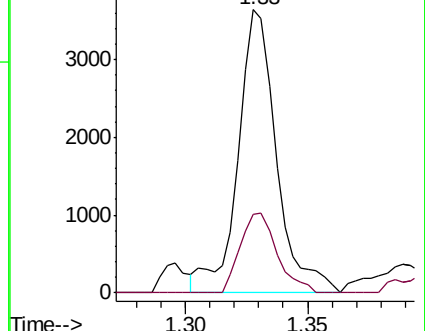
50 100

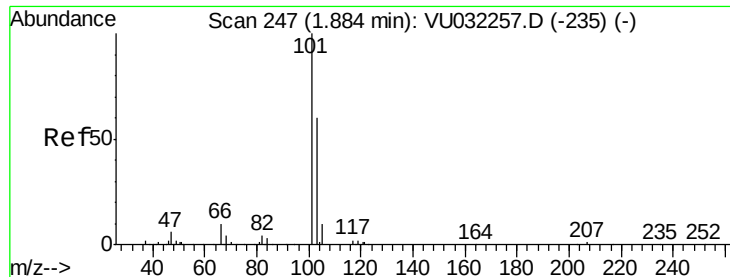
52 27.7 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU032265.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU032265.D (-1) (-)





#9

Trichlorofluoromethane

Concen: 0.316 ug/L

RT: 1.88 min Scan# 247

Delta R.T. -0.00 min

Lab File: VU032265.D

Acq: 23 May 2019 13:36

Instrument :

MSVOA_U

ClientSampleId :

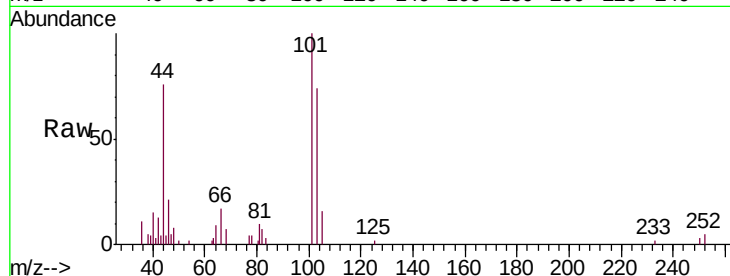
E3YF0MSD

Tgt Ion:101 Resp: 6642

Ion Ratio Lower Upper

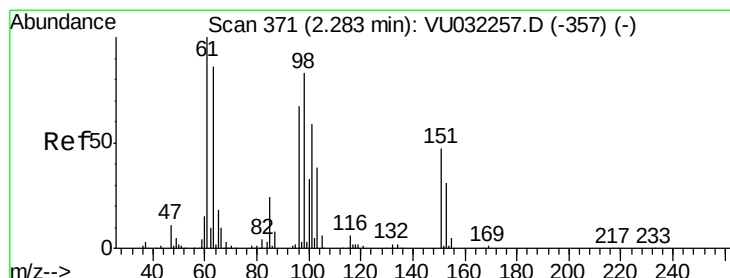
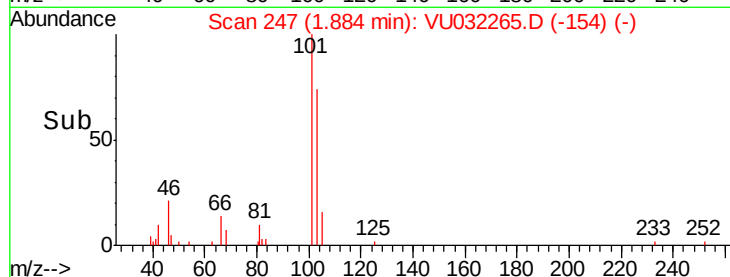
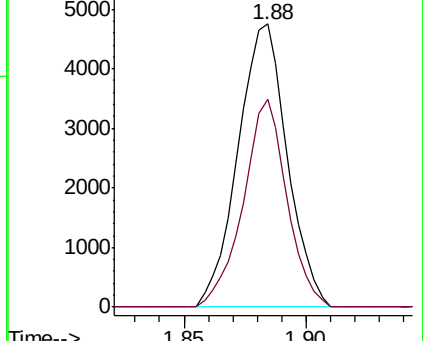
101 100

103 64.8 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#10

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

Concen: 0.144 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU032265.D

Acq: 23 May 2019 13:36

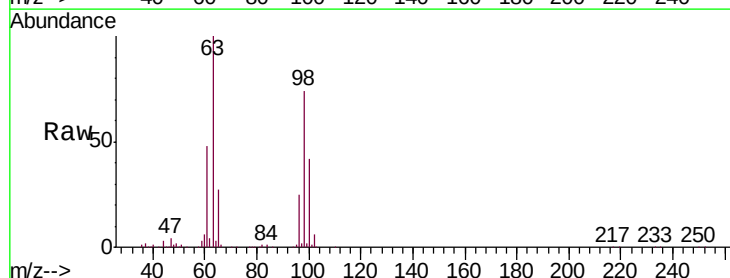
Tgt Ion:101 Resp: 1913

Ion Ratio Lower Upper

101 100

85 0.0 34.2 51.4#

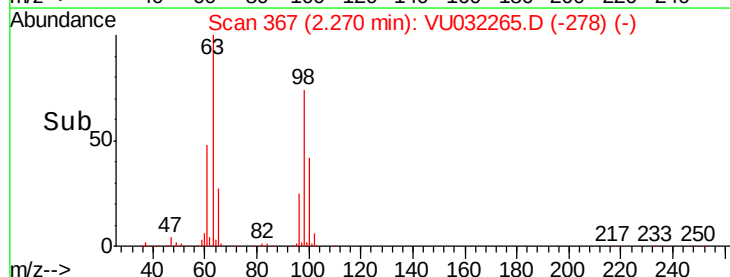
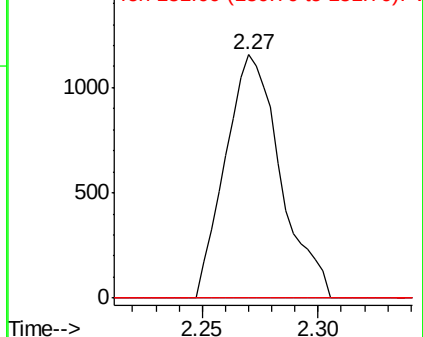
151 0.0 64.4 96.6#

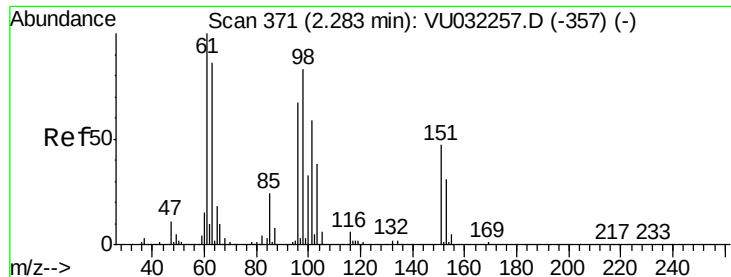


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V





#12

1,1-Dichloroethene

Concen: 6.327 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU032265.D

Acq: 23 May 2019 13:36

Instrument :

MSVOA_U

ClientSampleId :

E3YF0MSD

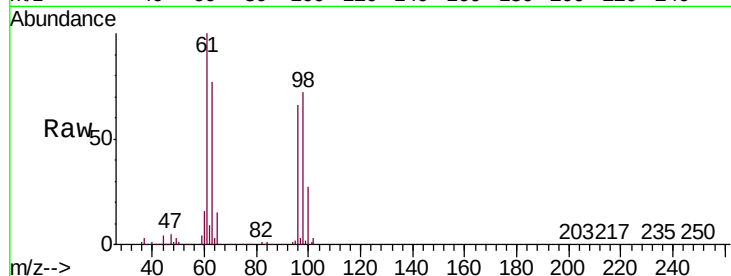
Tgt Ion: 96 Resp: 84399

Ion Ratio Lower Upper

96 100

61 151.0 113.8 211.3

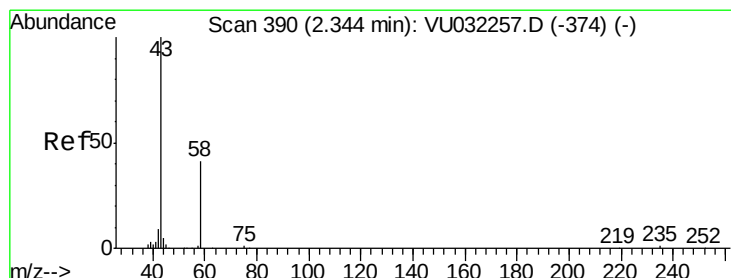
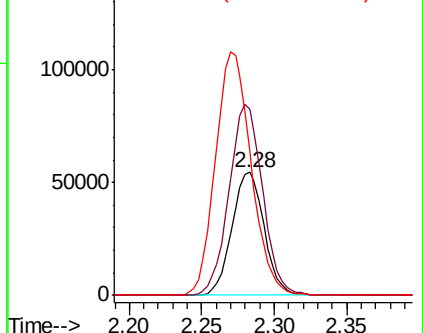
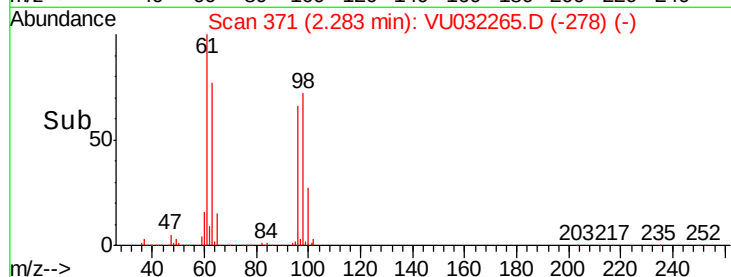
63 117.0 108.8 202.2



Abundance Ion 96.00 (95.70 to 96.70): VU032265.D (-278) (-)

Ion 61.05 (60.75 to 61.75): VU032265.D (-278) (-)

Ion 63.00 (62.70 to 63.70): VU032265.D (-278) (-)



#13

Acetone

Concen: 7.528 ug/L

RT: 2.32 min Scan# 383

Delta R.T. -0.02 min

Lab File: VU032265.D

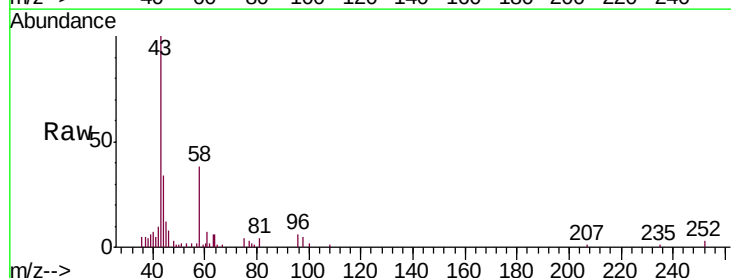
Acq: 23 May 2019 13:36

Tgt Ion: 43 Resp: 13848

Ion Ratio Lower Upper

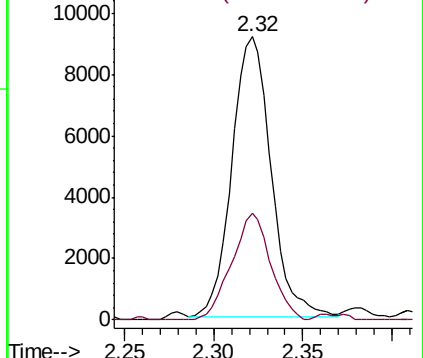
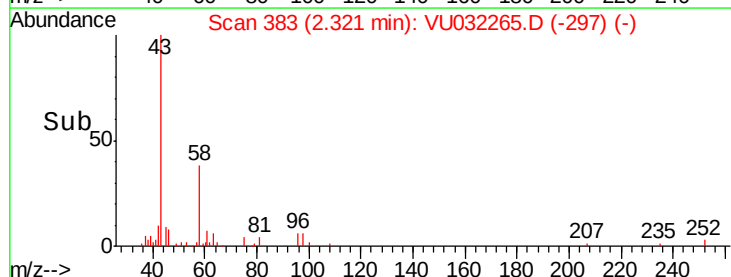
43 100

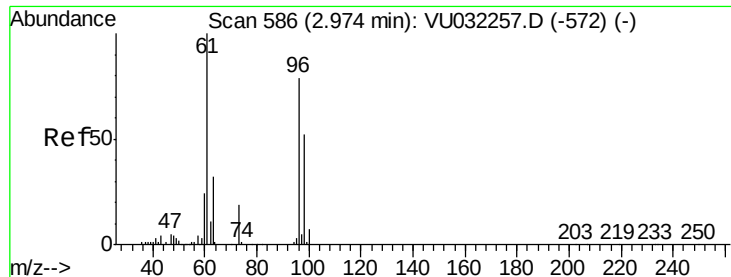
58 38.0 0.0 72.6



Abundance Ion 43.05 (42.75 to 43.75): VU032265.D (-297) (-)

Ion 58.05 (57.75 to 58.75): VU032265.D (-297) (-)





#18

trans-1,2-Dichloroethene

Concen: 0.307 ug/L

RT: 2.97 min Scan# 585

Delta R.T. -0.00 min

Lab File: VU032265.D

Acq: 23 May 2019 13:36

Instrument :

MSVOA_U

ClientSampleId :

E3YF0MSD

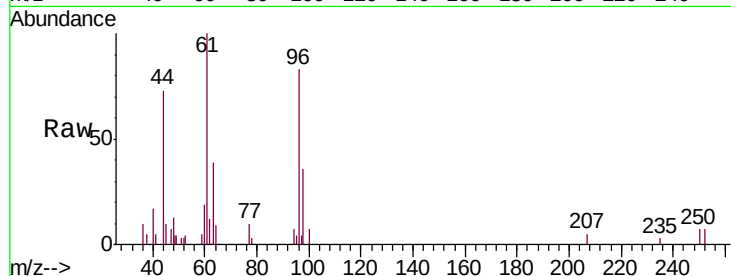
Tgt Ion: 96 Resp: 4398

Ion Ratio Lower Upper

96 100

61 120.8 90.6 168.3

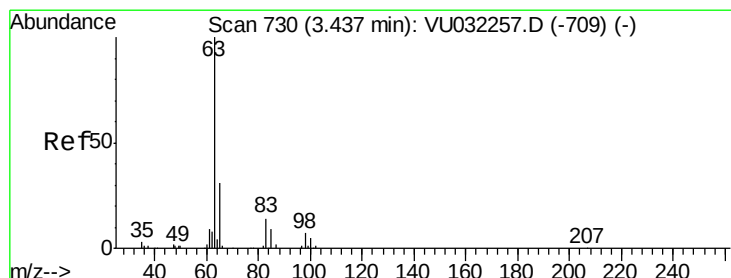
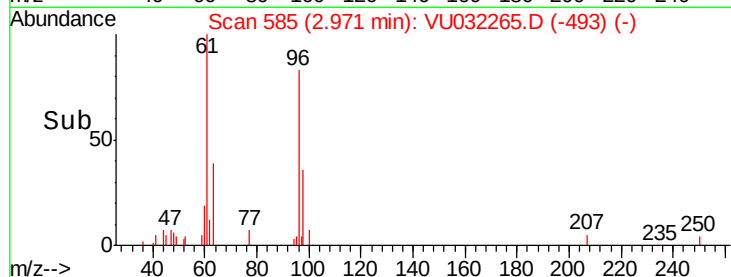
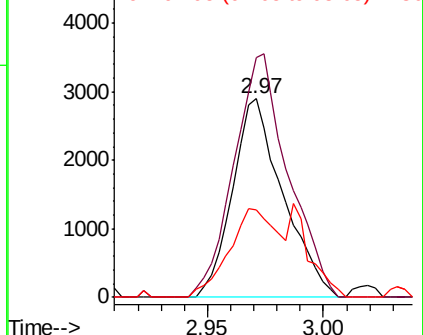
98 43.9 49.5 91.9#



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: 7.189 ug/L

RT: 3.44 min Scan# 730

Delta R.T. -0.00 min

Lab File: VU032265.D

Acq: 23 May 2019 13:36

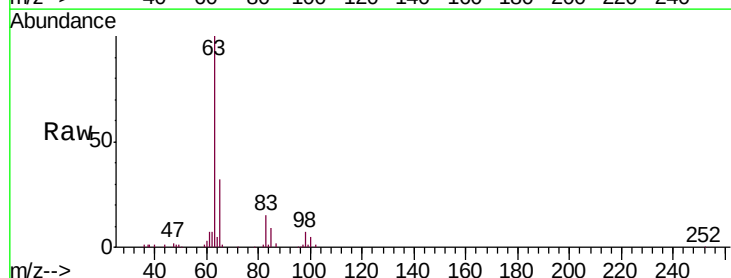
Tgt Ion: 63 Resp: 158973

Ion Ratio Lower Upper

63 100

65 31.6 23.5 43.7

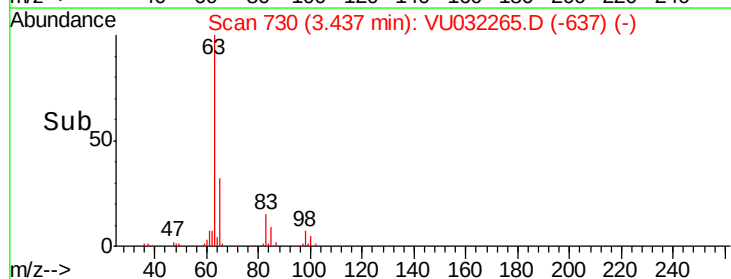
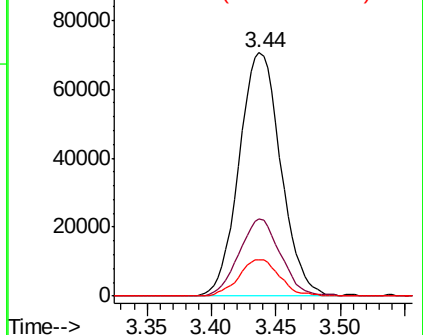
83 15.1 8.8 16.3

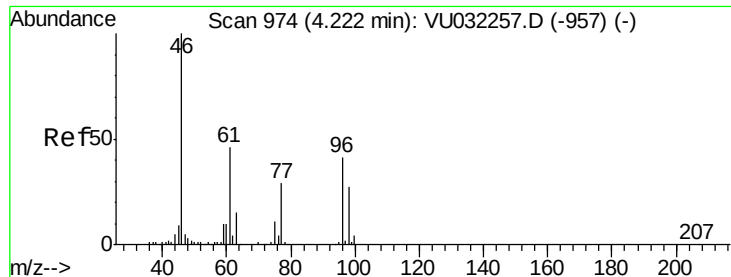


Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0



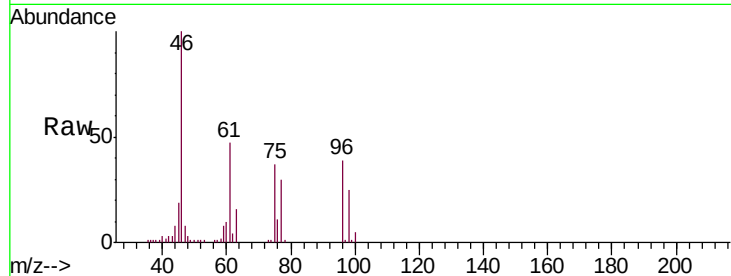


#22

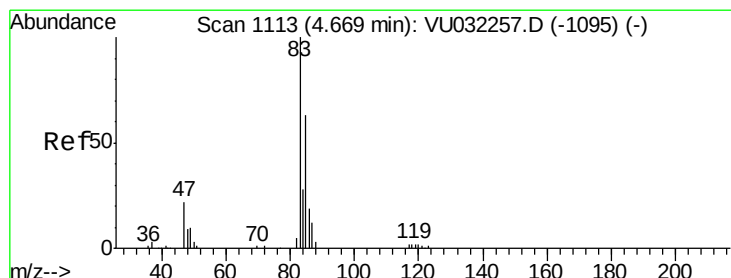
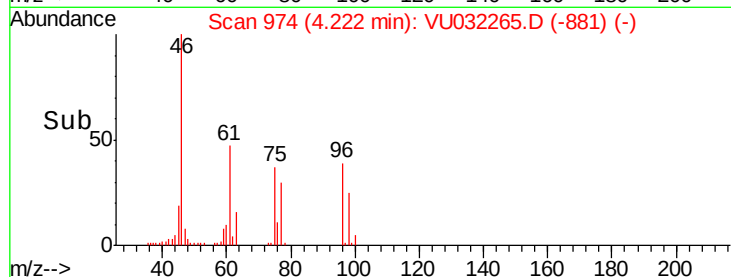
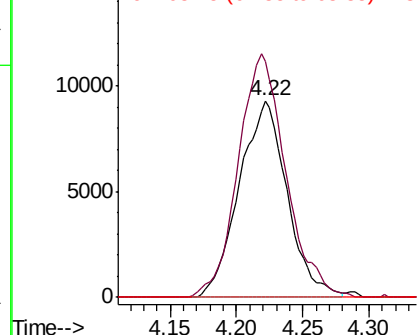
cis-1,2-Dichloroethene
Concen: 1.673 ug/L
RT: 4.22 min Scan# 974
Delta R.T. -0.00 min
Lab File: VU032265.D
Acq: 23 May 2019 13:36

Instrument :
MSVOA_U
ClientSampleId :
E3YF0MSD

Tgt Ion: 96 Resp: 23379
Ion Ratio Lower Upper
96 100
61 120.3 82.5 153.1
68 0.0 0.0 0.0



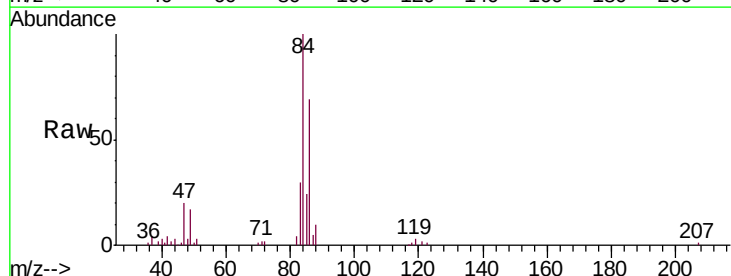
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



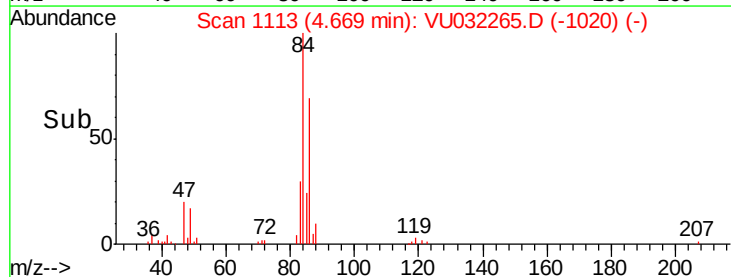
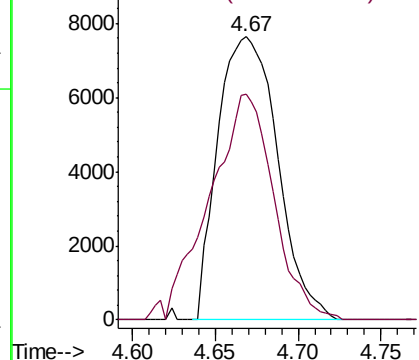
#25

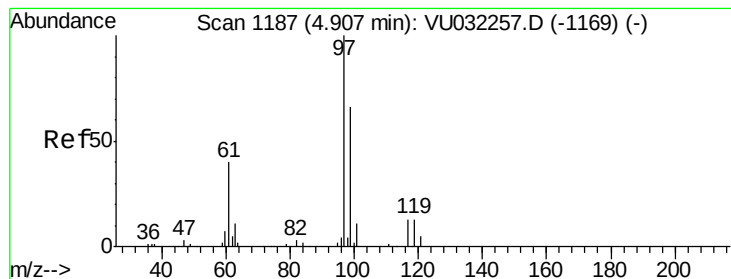
Chloroform
Concen: 0.803 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU032265.D
Acq: 23 May 2019 13:36

Tgt Ion: 83 Resp: 19166
Ion Ratio Lower Upper
83 100
85 79.7 41.6 77.3#



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





#29

1,1,1-Trichloroethane

Concen: 6.339 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. -0.00 min

Lab File: VU032265.D

Acq: 23 May 2019 13:36

Instrument :

MSVOA_U

ClientSampleId :

E3YF0MSD

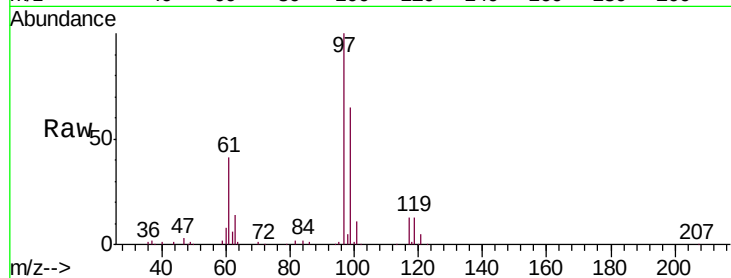
Tgt Ion: 97 Resp: 126376

Ion Ratio Lower Upper

97 100

99 64.7 50.3 75.5

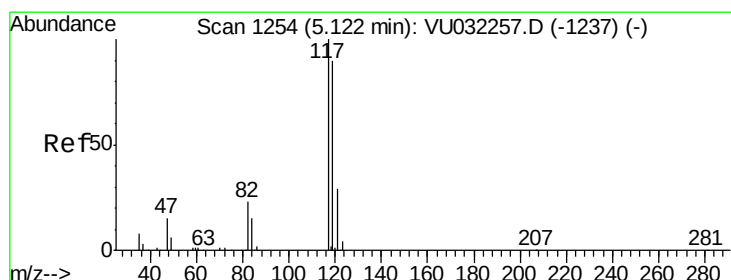
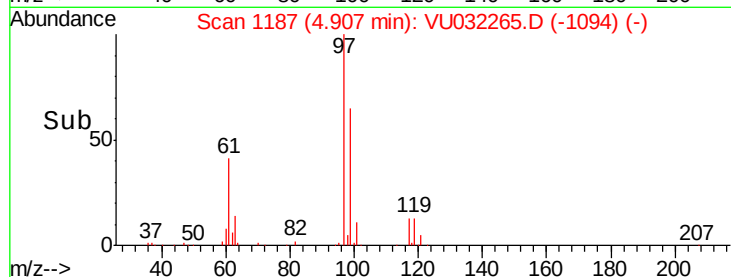
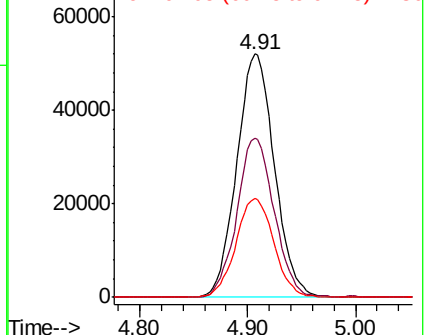
61 41.1 34.1 51.1



Abundance Ion 96.95 (96.65 to 97.65): VU032265.D (-1094) (-)

Ion 99.05 (98.75 to 99.75): VU032265.D (-1094) (-)

Ion 61.05 (60.75 to 61.75): VU032265.D (-1094) (-)



#31

Carbon tetrachloride

Concen: 0.988 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. -0.21 min

Lab File: VU032265.D

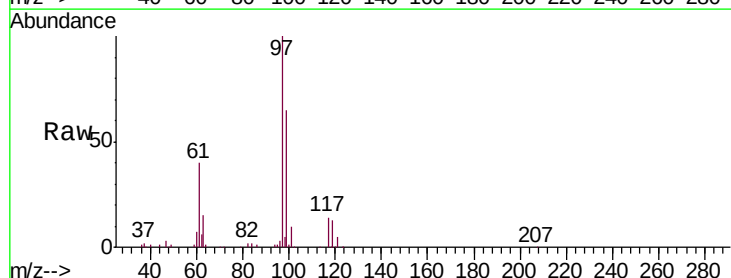
Acq: 23 May 2019 13:36

Tgt Ion: 117 Resp: 17352

Ion Ratio Lower Upper

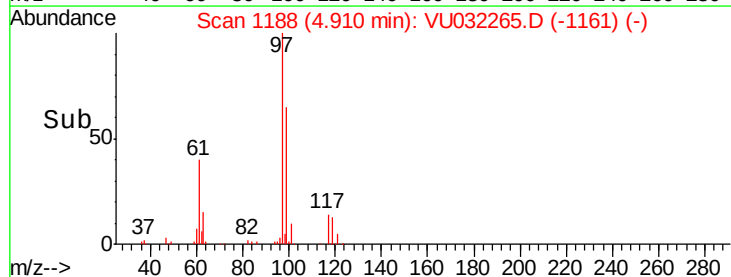
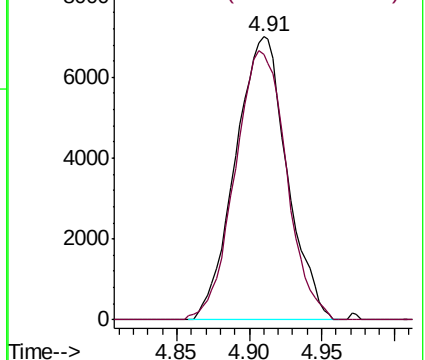
117 100

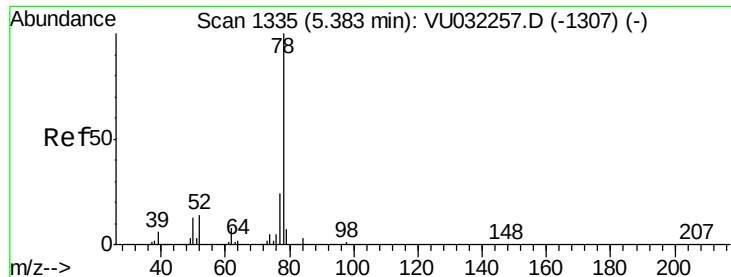
119 94.3 76.9 115.3



Abundance Ion 116.90 (116.60 to 117.60): VU032265.D (-1161) (-)

Ion 118.90 (118.60 to 119.60): VU032265.D (-1161) (-)





#33

Benzene

Concen: 5.798 ug/L

RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU032265.D

Acq: 23 May 2019 13:36

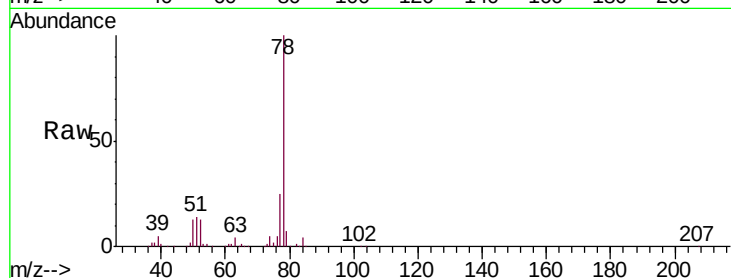
Instrument :

MSVOA_U

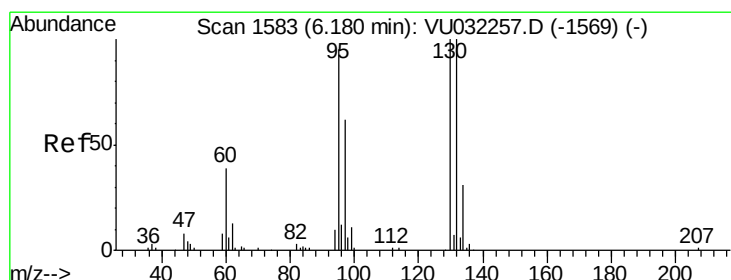
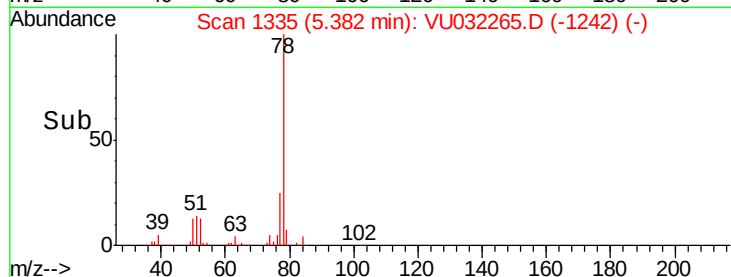
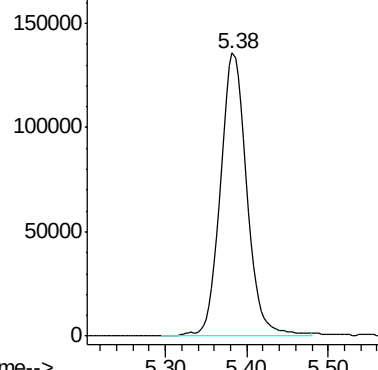
ClientSampleId :

E3YF0MSD

Tgt Ion: 78 Resp: 301238



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 7.578 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU032265.D

Acq: 23 May 2019 13:36

Tgt Ion: 95 Resp: 105670

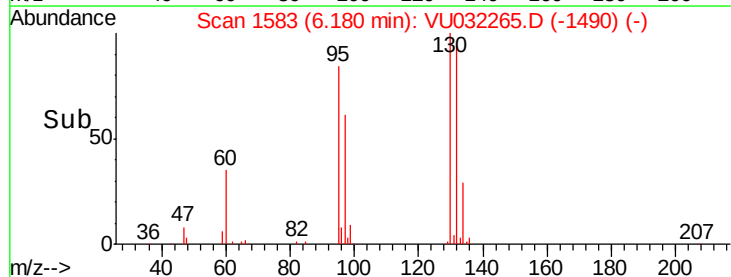
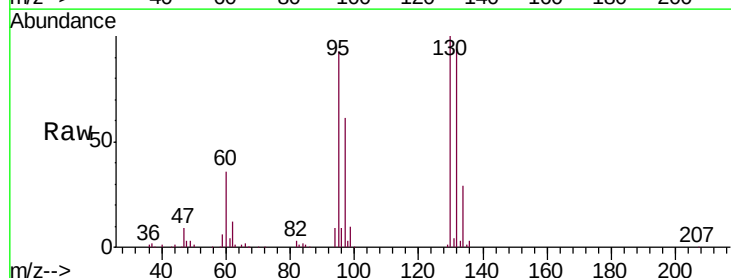
Ion	Ratio	Lower	Upper
95	100		
97	66.1	39.9	74.1
132	101.0	65.9	122.5
130	107.7	70.6	131.2

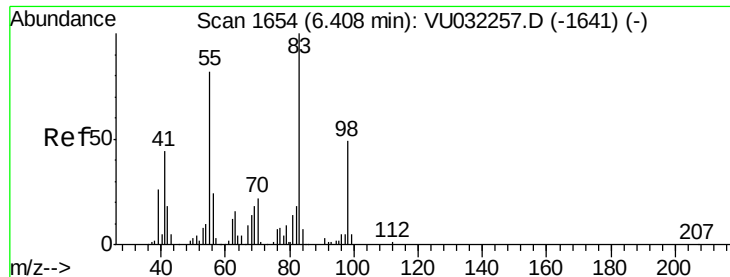
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

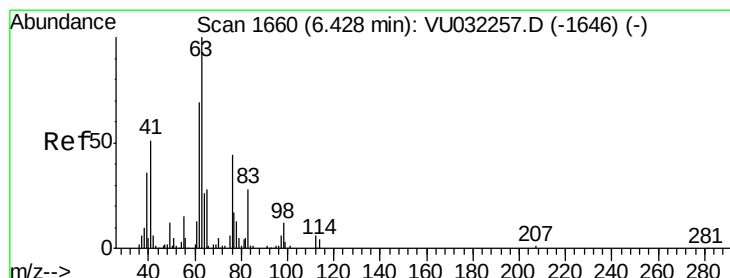
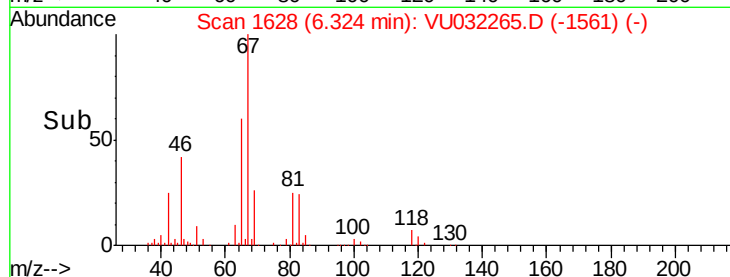
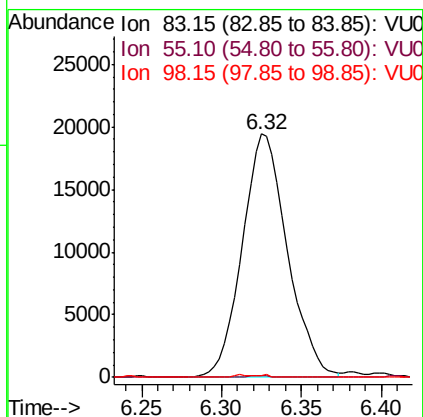
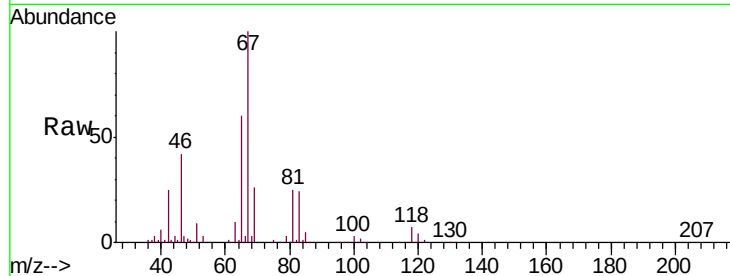




#35
Methylcyclohexane
Concen: 1.833 ug/L
RT: 6.32 min Scan# 1628
Delta R.T. -0.08 min
Lab File: VU032265.D
Acq: 23 May 2019 13:36

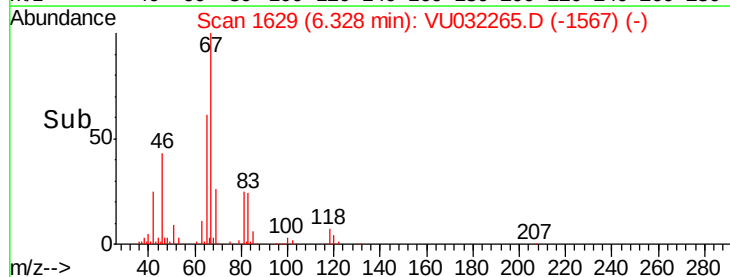
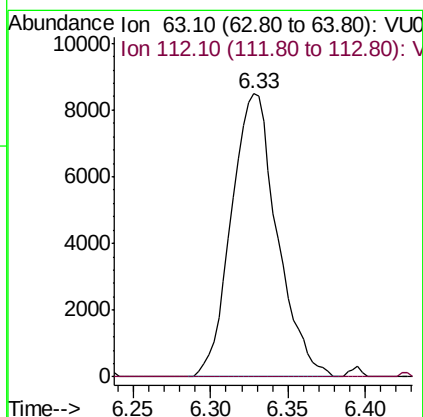
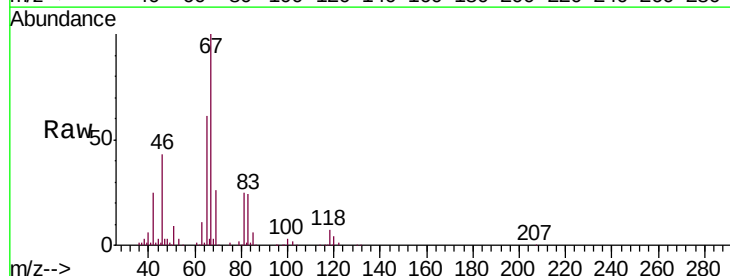
Instrument :
MSVOA_U
ClientSampleId :
E3YF0MSD

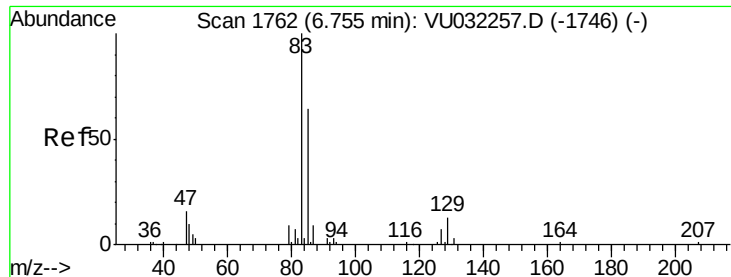
Tgt Ion: 83 Resp: 37657
Ion Ratio Lower Upper
83 100
55 0.3 59.7 89.5#
98 0.6 37.5 56.3#



#37
1,2-Dichloropropane
Concen: 1.394 ug/L
RT: 6.33 min Scan# 1629
Delta R.T. -0.10 min
Lab File: VU032265.D
Acq: 23 May 2019 13:36

Tgt Ion: 63 Resp: 17436
Ion Ratio Lower Upper
63 100
112 0.3 3.8 5.8#





#38

Bromodichloromethane

Concen: 0.318 ug/L

RT: 6.76 min Scan# 1764

Delta R.T. 0.01 min

Lab File: VU032265.D

Acq: 23 May 2019 13:36

Instrument :

MSVOA_U

ClientSampleId :

E3YF0MSD

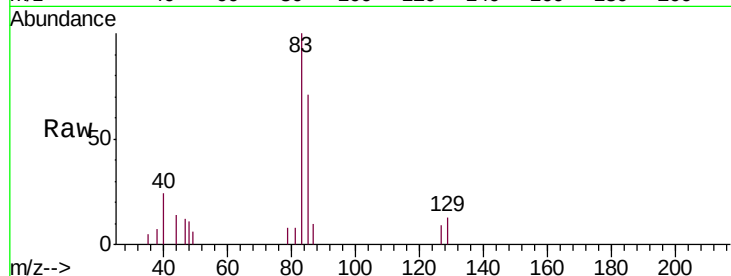
Tgt Ion: 83 Resp: 5173

Ion Ratio Lower Upper

83 100

85 70.9 44.4 82.4

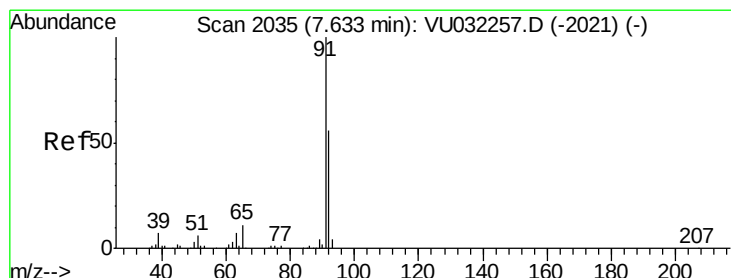
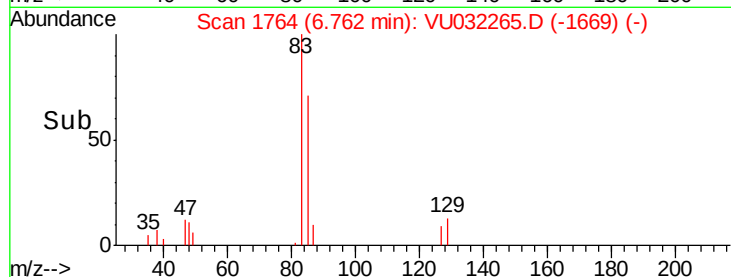
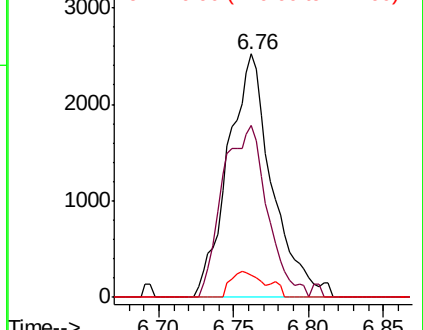
127 9.3 7.0 10.6



Abundance Ion 82.95 (82.65 to 83.65): VU032265.D (-1669) (-)

Ion 85.00 (84.70 to 85.70): VU032265.D (-1669) (-)

Ion 126.90 (126.60 to 127.60): VU032265.D (-1669) (-)



#42

Toluene

Concen: 5.698 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU032265.D

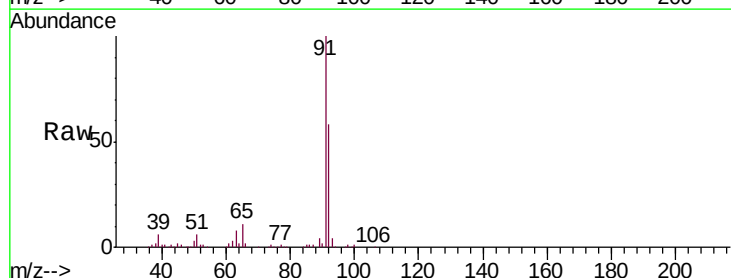
Acq: 23 May 2019 13:36

Tgt Ion: 91 Resp: 314545

Ion Ratio Lower Upper

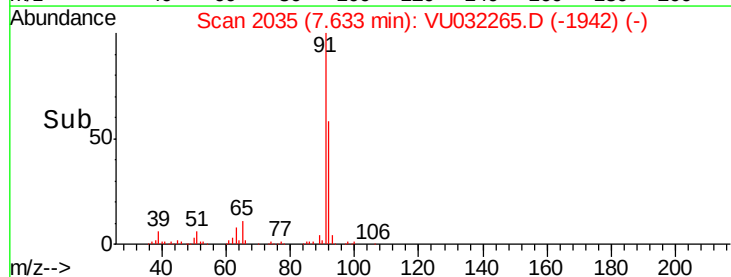
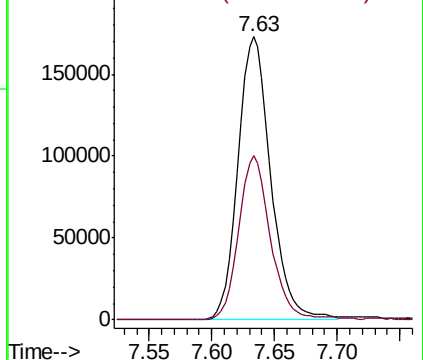
91 100

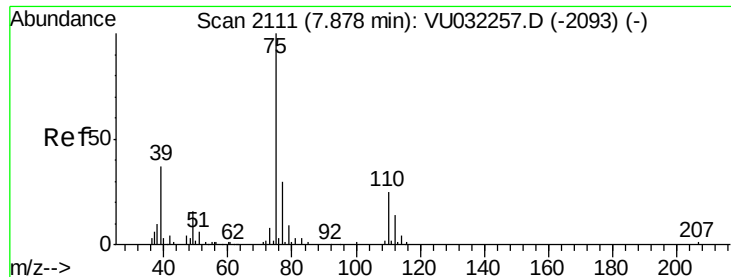
92 57.9 38.5 71.5



Abundance Ion 91.15 (90.85 to 91.85): VU032265.D (-1942) (-)

Ion 92.15 (91.85 to 92.85): VU032265.D (-1942) (-)

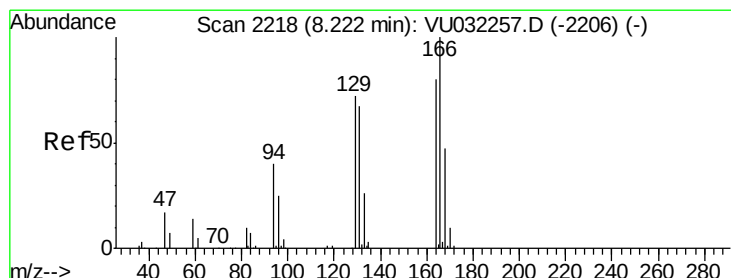
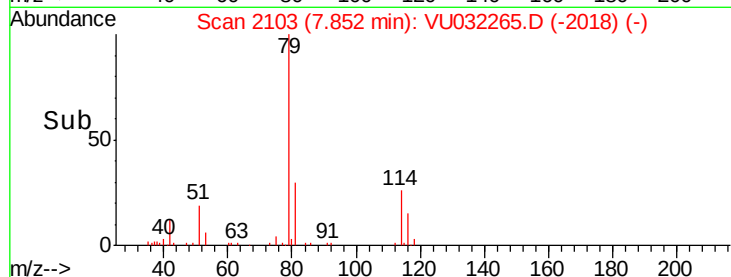
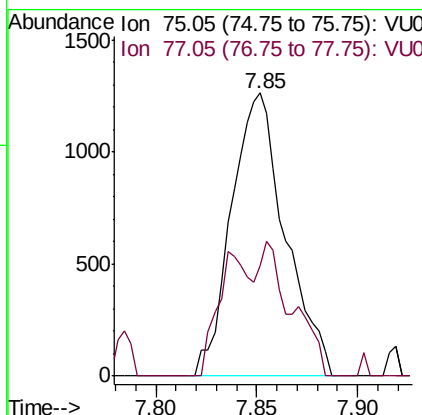
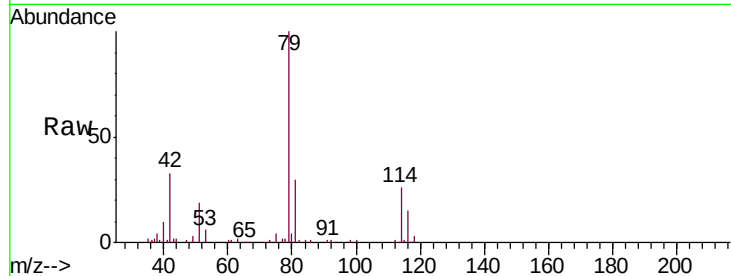




#44
trans-1,3-Dichloropropene
Concen: 0.169 ug/L
RT: 7.85 min Scan# 2103
Delta R.T. -0.03 min
Lab File: VU032265.D
Acq: 23 May 2019 13:36

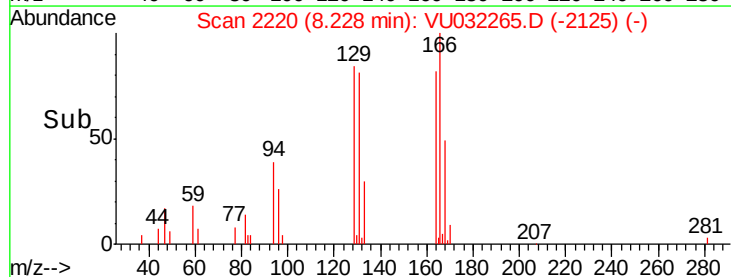
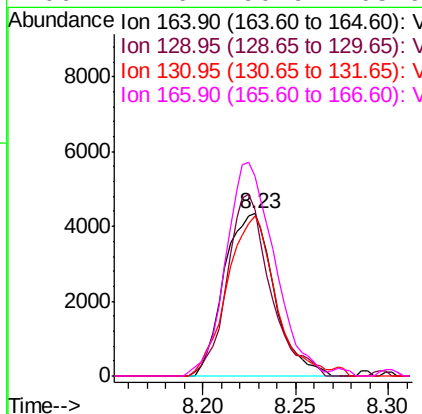
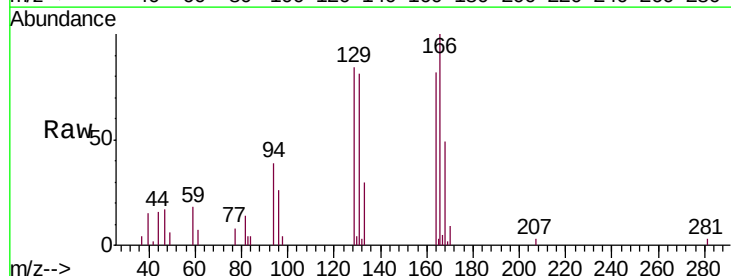
Instrument :
MSVOA_U
ClientSampleId :
E3YF0MSD

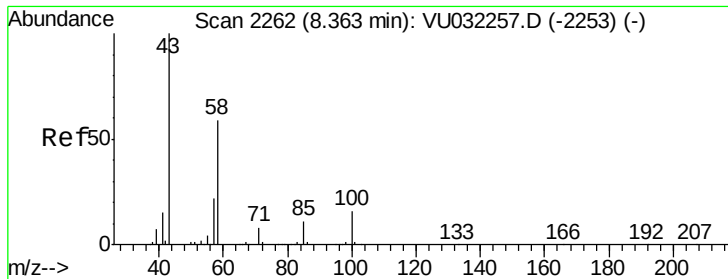
Tgt Ion: 75 Resp: 2360
Ion Ratio Lower Upper
75 100
77 39.2 22.5 41.9



#47
Tetrachloroethene
Concen: 0.706 ug/L
RT: 8.23 min Scan# 2220
Delta R.T. 0.01 min
Lab File: VU032265.D
Acq: 23 May 2019 13:36

Tgt Ion: 164 Resp: 8126
Ion Ratio Lower Upper
164 100
129 102.4 67.1 124.7
131 98.7 62.2 115.4
166 122.6 90.9 168.9

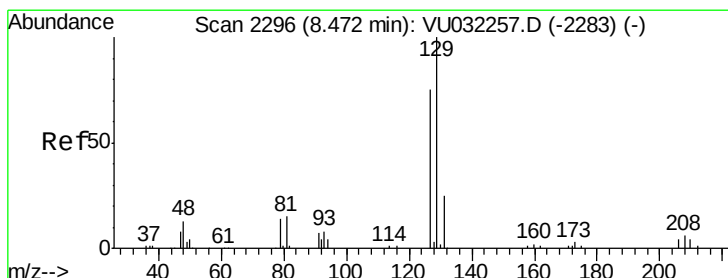
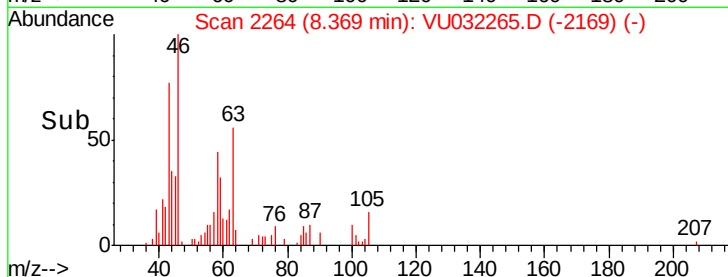
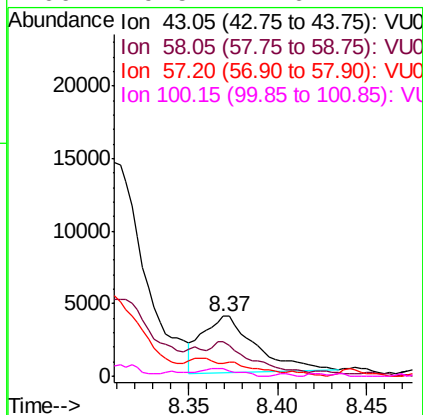
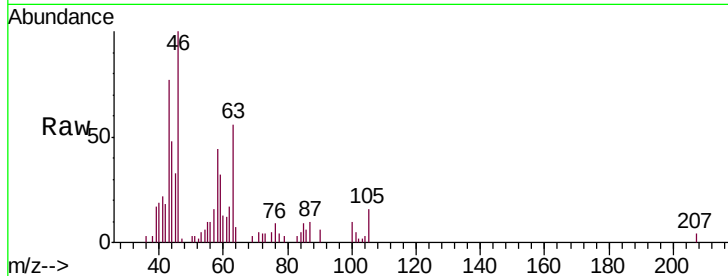




#48
2-Hexanone
Concen: 1.670 ug/L
RT: 8.37 min Scan# 2264
Delta R.T. 0.01 min
Lab File: VU032265.D
Acq: 23 May 2019 13:36

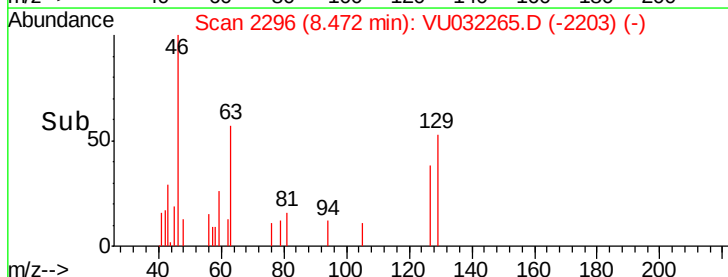
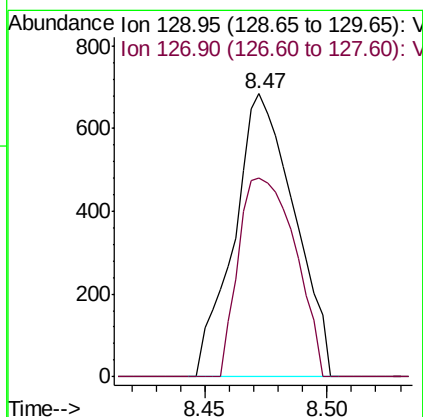
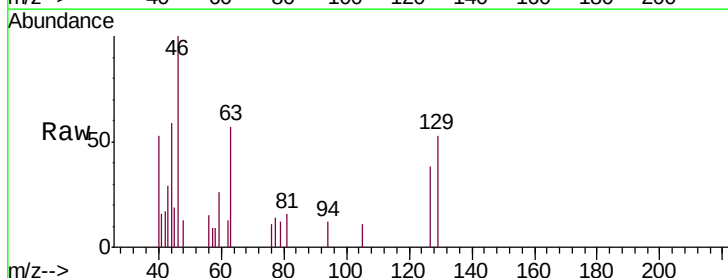
Instrument :
MSVOA_U
ClientSampleId :
E3YF0MSD

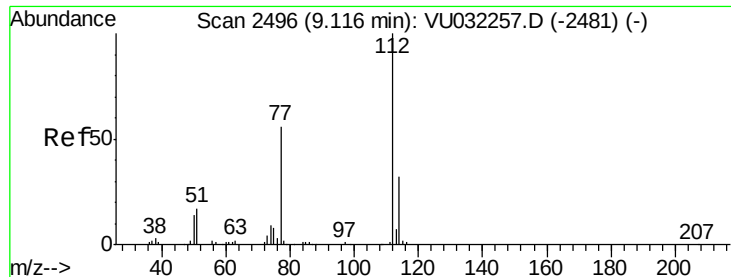
Tgt Ion: 43 Resp: 8101
Ion Ratio Lower Upper
43 100
58 48.1 49.7 74.5#
57 0.0 17.1 25.7#
100 9.5 11.6 17.4#



#49
Dibromochloromethane
Concen: 0.107 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU032265.D
Acq: 23 May 2019 13:36

Tgt Ion: 129 Resp: 1173
Ion Ratio Lower Upper
129 100
127 70.3 51.7 95.9

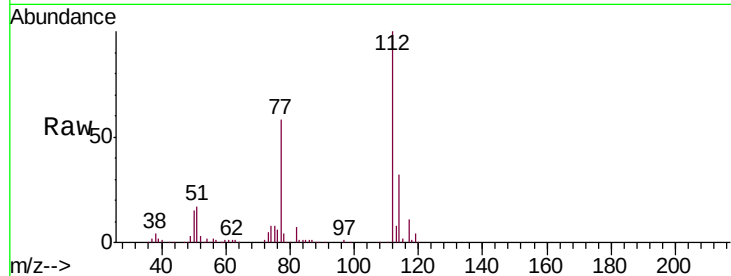




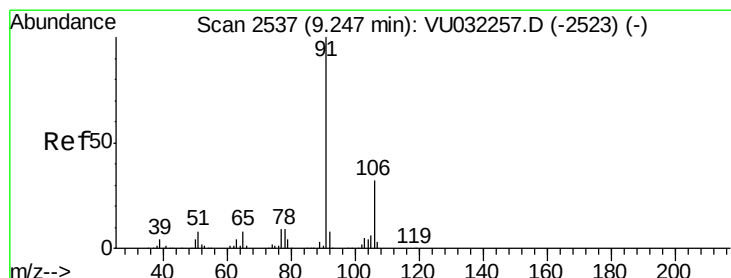
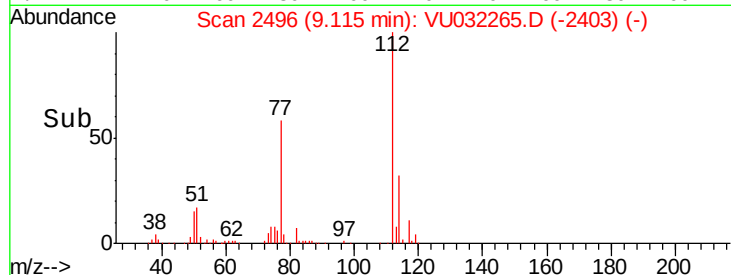
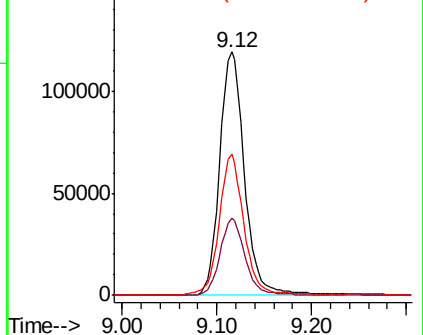
#51
Chlorobenzene
Concen: 6.167 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU032265.D
Acq: 23 May 2019 13:36

Instrument :
MSVOA_U
ClientSampleId :
E3YF0MSD

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.7	22.6	42.0
77	58.1	46.8	70.2

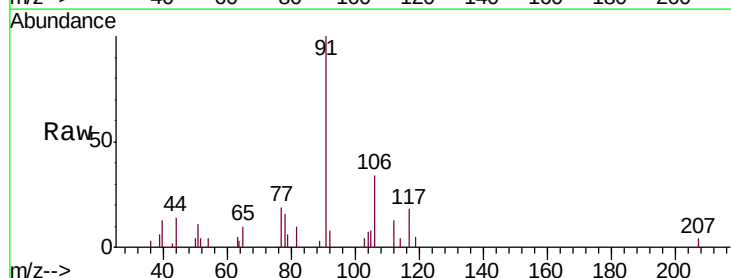


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

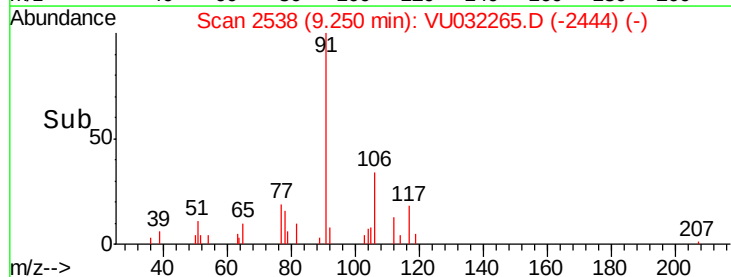
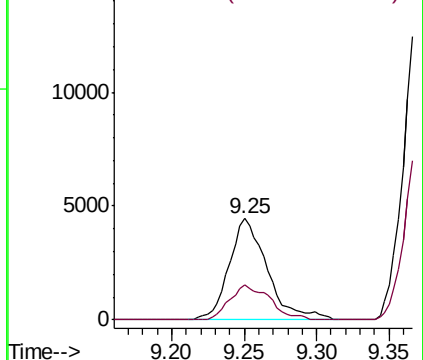


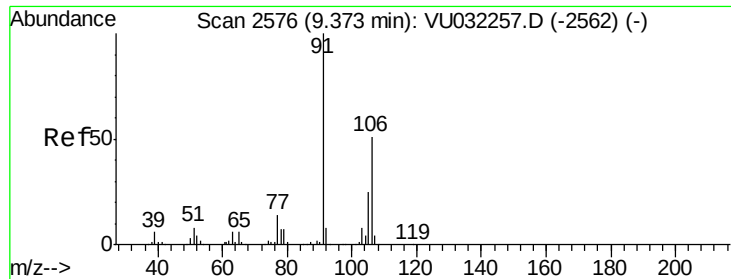
#52
Ethylbenzene
Concen: 0.146 ug/L
RT: 9.25 min Scan# 2538
Delta R.T. 0.00 min
Lab File: VU032265.D
Acq: 23 May 2019 13:36

Tgt Ion	Ratio	Lower	Upper
91	100		
106	34.3	20.9	38.9



Abundance Ion 91.15 (90.85 to 91.85): V
Ion 106.15 (105.85 to 106.85): V

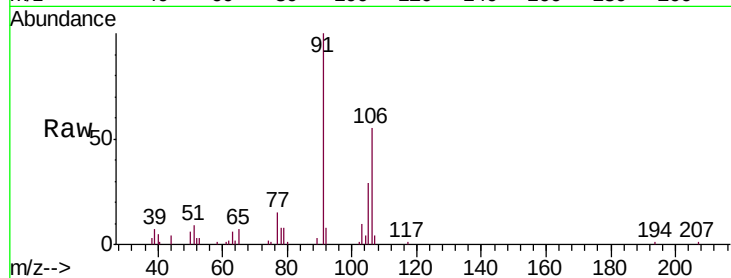




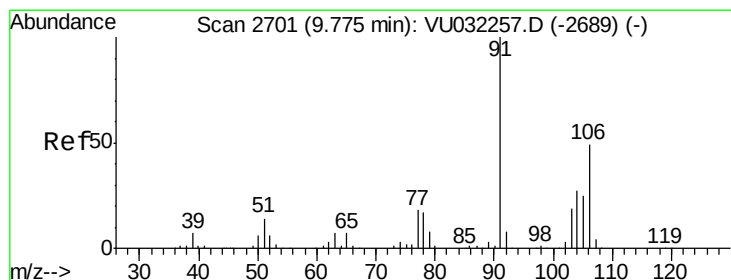
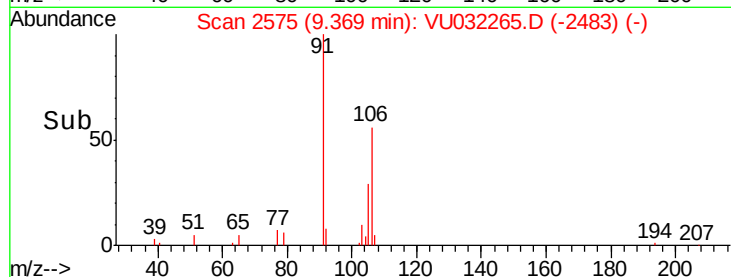
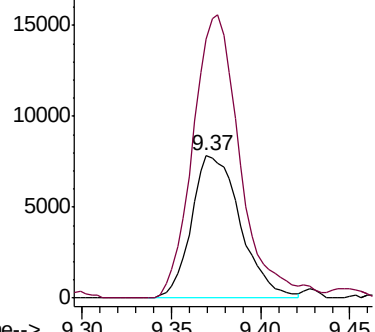
#53
m,p-Xylene
Concen: 0.724 ug/L
RT: 9.37 min Scan# 2575
Delta R.T. -0.00 min
Lab File: VU032265.D
Acq: 23 May 2019 13:36

Instrument :
MSVOA_U
ClientSampleId :
E3YF0MSD

Tgt Ion:106 Resp: 14970
Ion Ratio Lower Upper
106 100
91 182.7 143.9 267.2

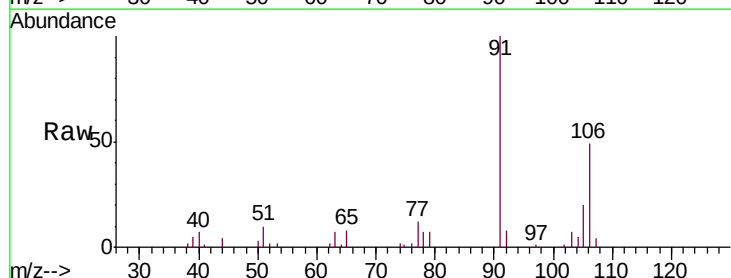


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

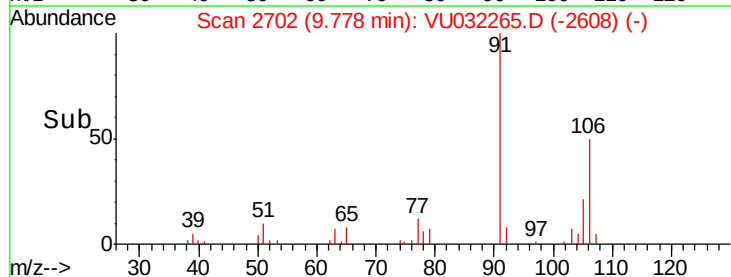
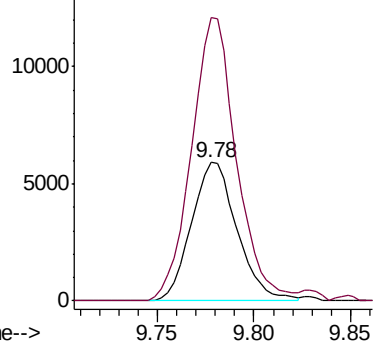


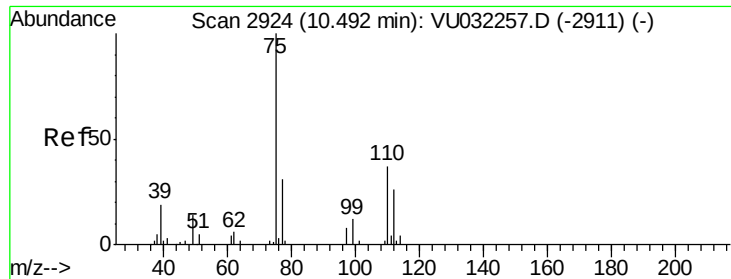
#54
o-Xylene
Concen: 0.469 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU032265.D
Acq: 23 May 2019 13:36

Tgt Ion:106 Resp: 9691
Ion Ratio Lower Upper
106 100
91 204.9 147.8 274.4



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0





#59

1,2,3-Trichloropropane

Concen: 1.862 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. 0.99 min

Lab File: VU032265.D

Acq: 23 May 2019 13:36

Instrument :

MSVOA_U

ClientSampleId :

E3YF0MSD

Tgt Ion: 75 Resp: 15169

Ion Ratio Lower Upper

75 100

77 41.4 28.2 42.4

