

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060619\
 Data File : VU032526.D
 Acq On : 07 Jun 2019 03:16
 Operator : JC/SP
 Sample : K3215-10
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DB8J4

Quant Time: Jun 07 07:40:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 07 07:01:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	226725	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	219474	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	124879	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	44051	29.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	59.90%#
7) Chloroethane-d5	1.68	69	41463	35.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	70.16%
11) 1,1-Dichloroethene-d2	2.27	63	75805	26.32	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	52.64%#
21) 2-Butanone-d5	4.17	46	156362	127.02	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	127.02%
24) Chloroform-d	4.64	84	118974	43.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.74%
26) 1,2-Dichloroethane-d4	5.30	65	83392	48.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.50%
32) Benzene-d6	5.33	84	235632	41.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	82.72%
36) 1,2-Dichloropropane-d6	6.32	67	80655	45.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.28%
41) Toluene-d8	7.56	98	224364	41.53	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	83.06%
43) trans-1,3-Dichloropropene-	7.85	79	37734	44.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.26%
47) 2-Hexanone-d5	8.31	63	117427	135.50	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	135.50%#
57) 1,1,2,2-Tetrachloroethane-	10.43	84	137932	53.28	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	106.56%
64) 1,2-Dichlorobenzene-d4	11.85	152	115084	48.11	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.22%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.40	62	20134	10.205	ug/L #	1
13) Acetone	2.32	43	2065287	1626.016	ug/L	98
16) Methylene chloride	2.69	84	8475	5.521	ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	2470	1.694	ug/L	85
19) 1,1-Dichloroethane	3.44	63	47925	18.033	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	5197	3.150	ug/L	93
22) 2-Butanone	4.26	43	43797	29.175	ug/L	99
29) Cyclohexane	4.99	56	3469	1.329	ug/L	97
33) Benzene	5.38	78	190312	30.862	ug/L	100
34) Trichloroethene	6.18	95	17330	10.330	ug/L	97
35) Methylcyclohexane	6.41	83	1734	0.638	ug/L #	28
37) 1,2-Dichloropropane	6.43	63	11093	6.786	ug/L #	98
40) 4-Methyl-2-pentanone	7.45	43	662223	251.816	ug/L	98
42) Toluene	7.63	91	381369	56.471	ug/L	100
46) Tetrachloroethene	8.22	164	2836	2.047	ug/L	96
51) Chlorobenzene	9.12	112	21414	4.922	ug/L	95
52) Ethylbenzene	9.24	91	120234	15.972	ug/L	99

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Quant Time: Jun 07 07:40:29 2019
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Quant Title : VOC Analysis
QLast Update : Fri Jun 07 07:01:53 2019
Response via : Initial Calibration

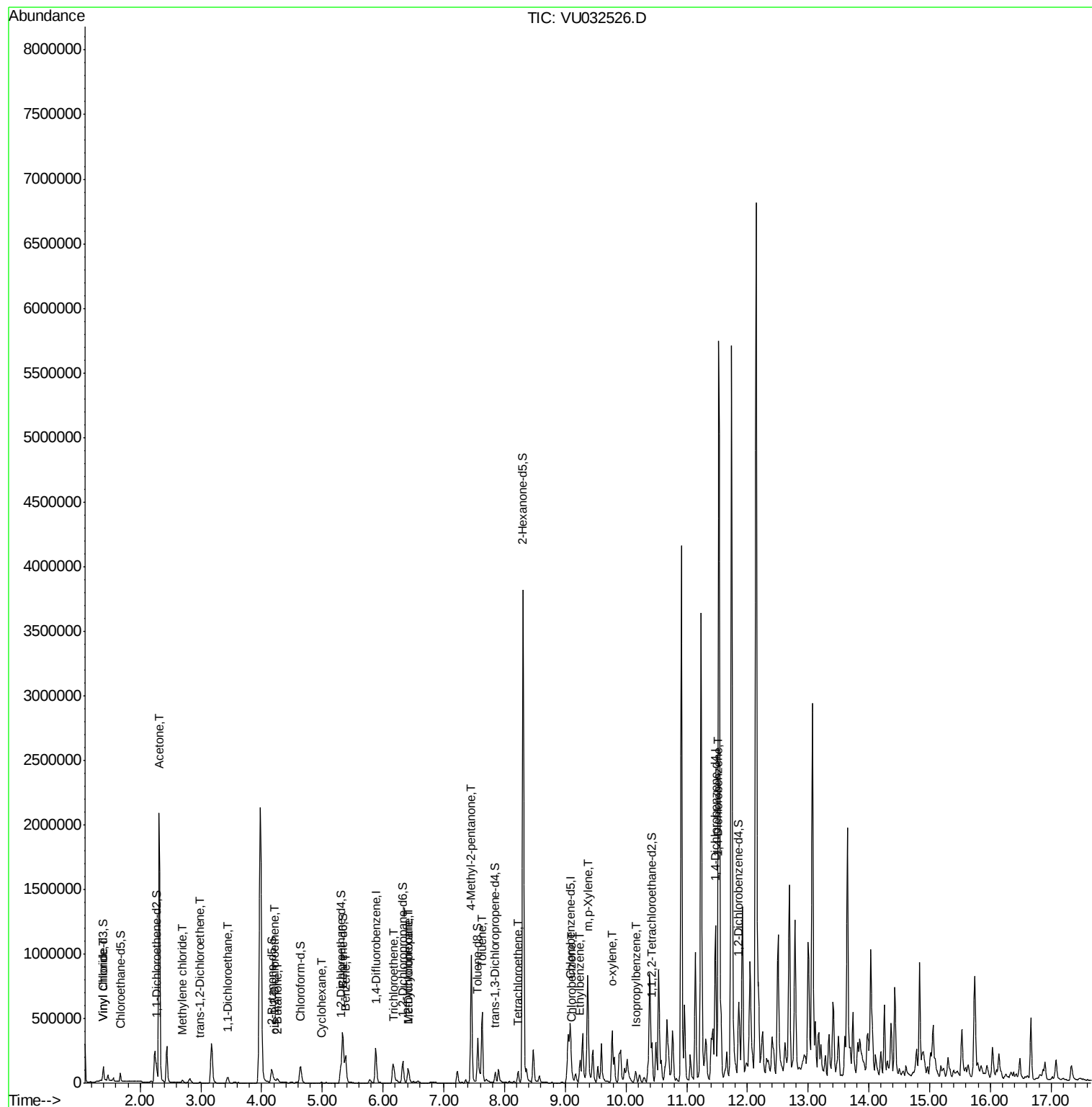
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.37	106	139362	48.687	ug/L	98
54) o-xylene	9.77	106	102001	35.890	ug/L	98
56) Isopropylbenzene	10.16	105	48314	6.447	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	3781	0.979	ug/L #	88

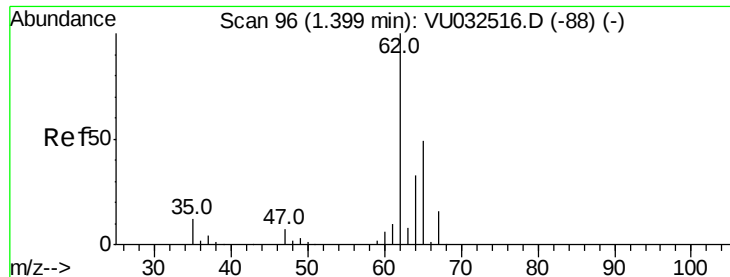
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU060619\
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Quant Title : VOC Analysis
QLast Update : Fri Jun 07 07:01:53 2019
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 10.205 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU032526.D

Acq: 07 Jun 2019 03:16

Instrument :

MSVOA_U

ClientSampled :

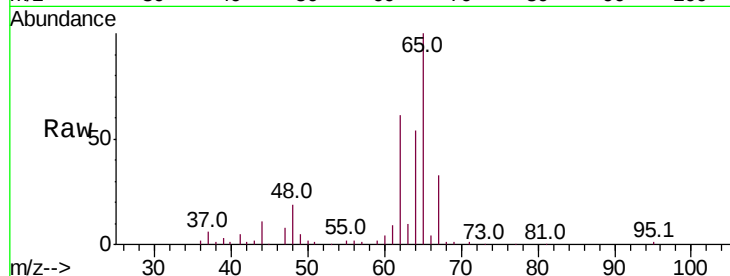
DB8J4

Tot Ion: 62 Resp: 20134

Ion Ratio Lower Upper

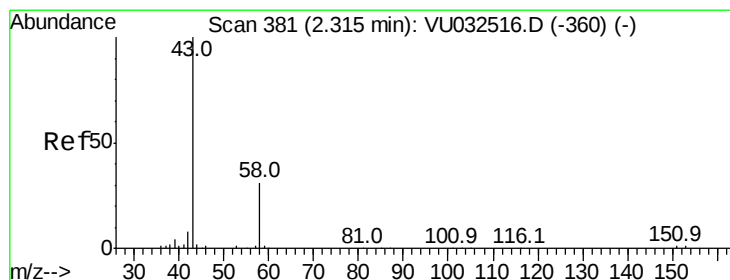
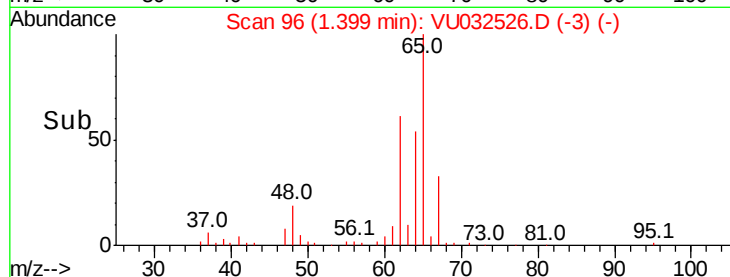
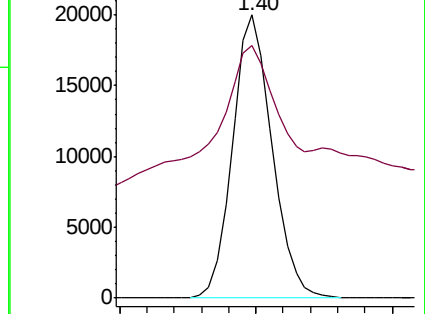
62 100

64 89.3 22.6 42.0#



Abundance Ion 62.00 (61.70 to 62.70): VU032516.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU032516.D (-88) (-)



#13

Acetone

Concen: 1626.016 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VU032526.D

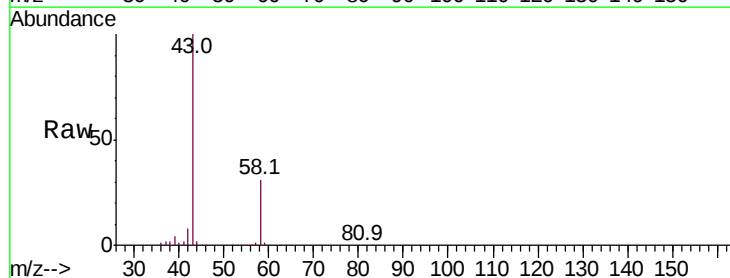
Acq: 07 Jun 2019 03:16

Tgt Ion: 43 Resp: 2065287

Ion Ratio Lower Upper

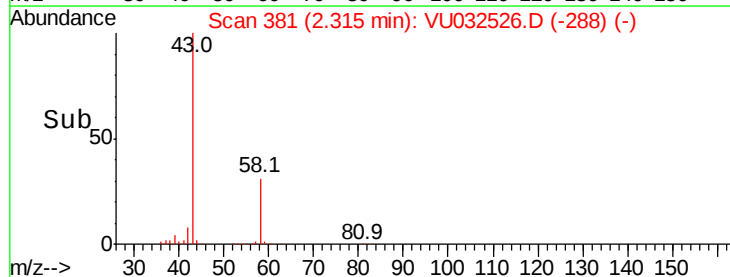
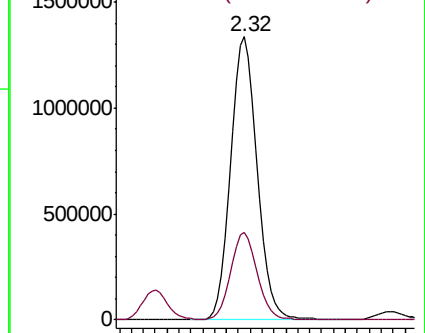
43 100

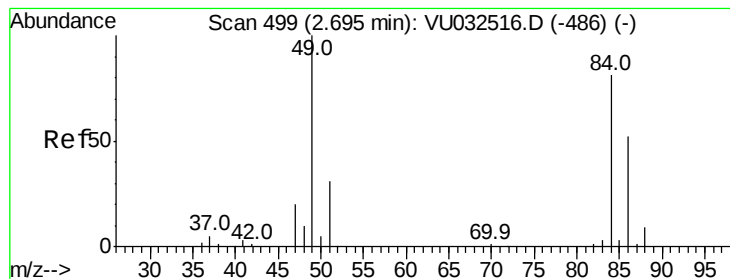
58 30.6 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU032516.D (-360) (-)

Ion 58.00 (57.70 to 58.70): VU032516.D (-360) (-)





#16

Methvlene chloride

Concen: 5.521 ug/L

RT: 2.69 min Scan# 499

Delta R.T. -0.00 min

Lab File: VU032526.D

Acq: 07 Jun 2019 03:16

Instrument :

MSVOA_U

ClientSampleId :

DB8J4

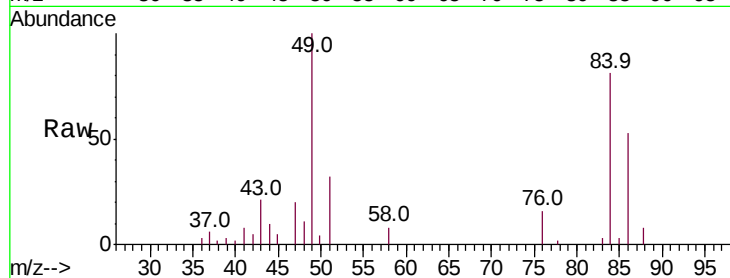
Tot Ion: 84 Resp: 8475

Ion Ratio Lower Upper

84 100

86 65.9 44.7 82.9

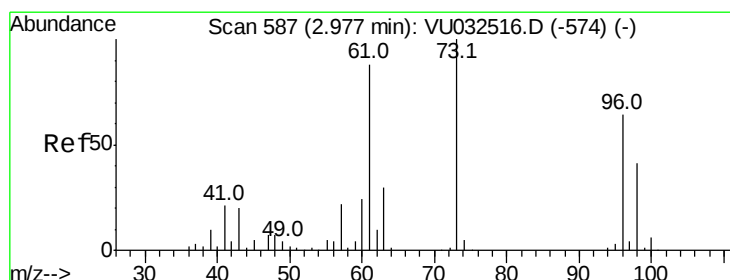
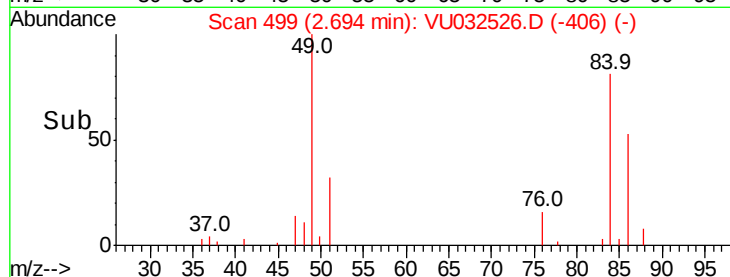
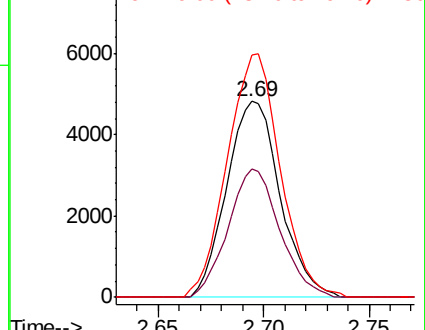
49 124.1 86.1 159.9



Abundance Ion 84.00 (83.70 to 84.70): VU032516.D (-486) (-)

Ion 86.00 (85.70 to 86.70): VU032516.D (-486) (-)

Ion 49.00 (48.70 to 49.70): VU032516.D (-486) (-)



#17

trans-1,2-Dichloroethene

Concen: 1.694 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU032526.D

Acq: 07 Jun 2019 03:16

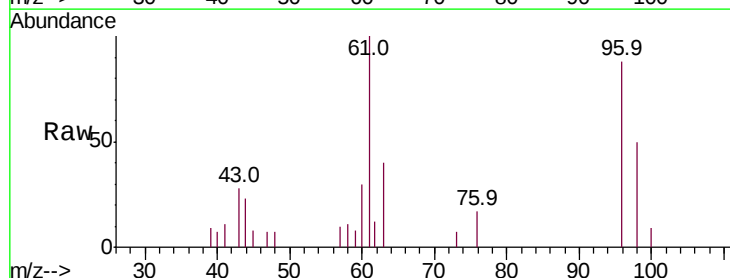
Tgt Ion: 96 Resp: 2470

Ion Ratio Lower Upper

96 100

61 113.8 95.7 177.7

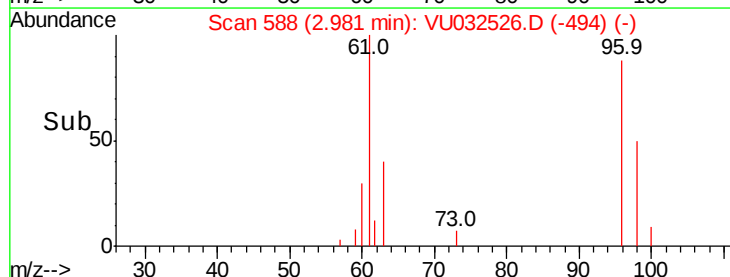
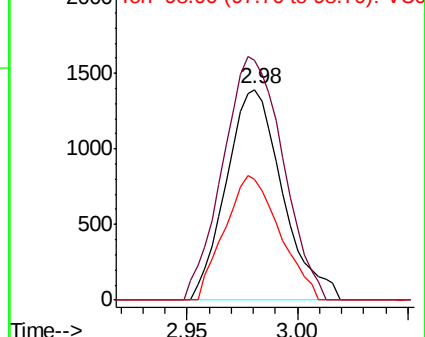
98 57.4 44.0 81.6

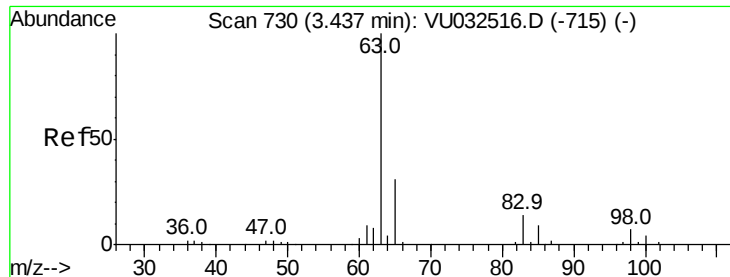


Abundance Ion 96.00 (95.70 to 96.70): VU032516.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU032516.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU032516.D (-574) (-)





#19

1,1-Dichloroethane

Concen: 18.033 ug/L

RT: 3.44 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU032526.D

Acq: 07 Jun 2019 03:16

Instrument :

MSVOA_U

ClientSampleId :

DB8J4

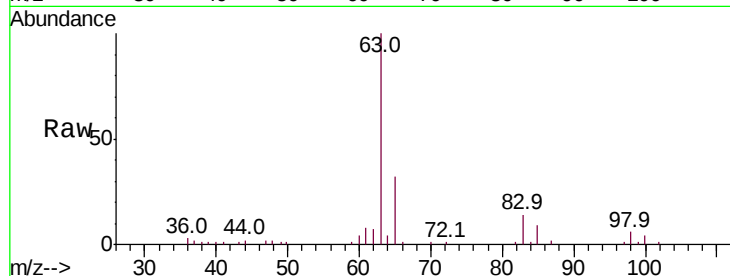
Tot Ion: 63 Resp: 47925

Ion Ratio Lower Upper

63 100

65 32.2 21.8 40.6

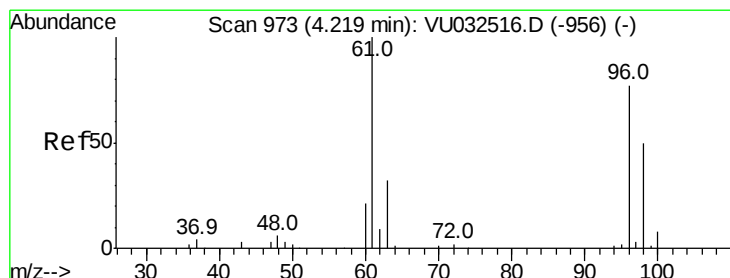
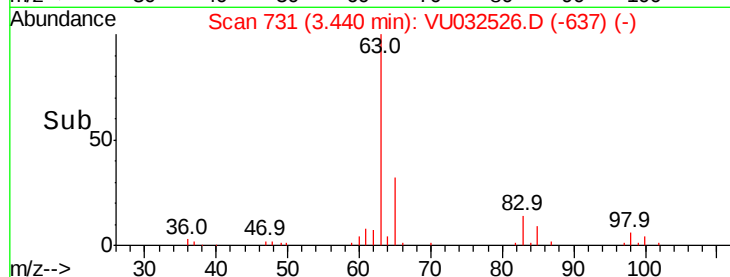
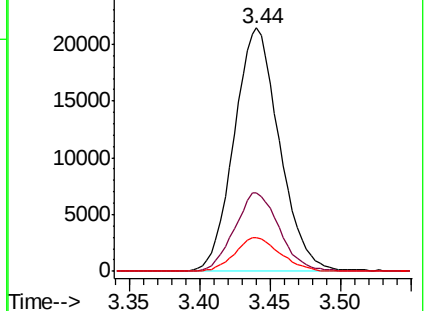
83 14.0 9.8 18.2



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: 3.150 ug/L

RT: 4.22 min Scan# 973

Delta R.T. -0.00 min

Lab File: VU032526.D

Acq: 07 Jun 2019 03:16

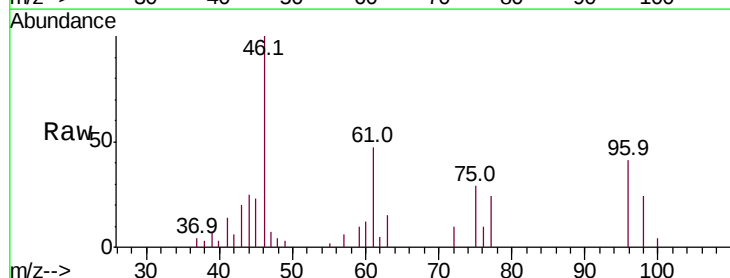
Tgt Ion: 96 Resp: 5197

Ion Ratio Lower Upper

96 100

61 116.4 87.2 162.0

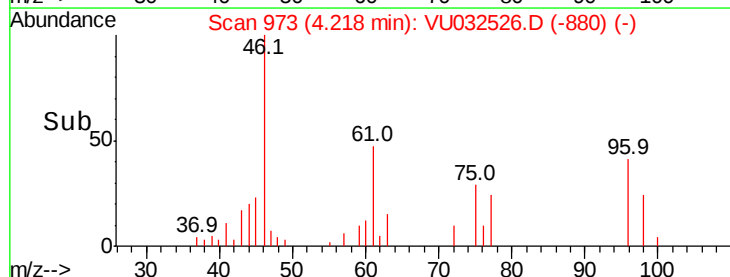
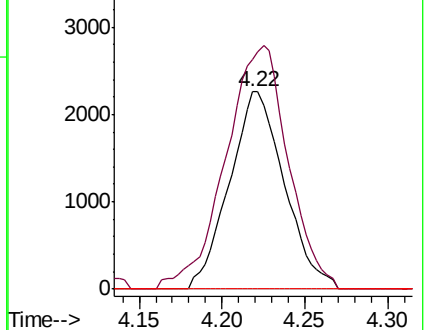
68 0.0 0.0 0.0

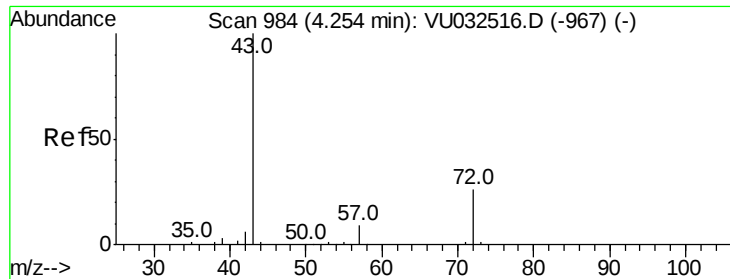


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 29.175 ug/L

RT: 4.26 min Scan# 986

Delta R.T. 0.01 min

Lab File: VU032526.D

Acq: 07 Jun 2019 03:16

Instrument :

MSVOA_U

ClientSampleId :

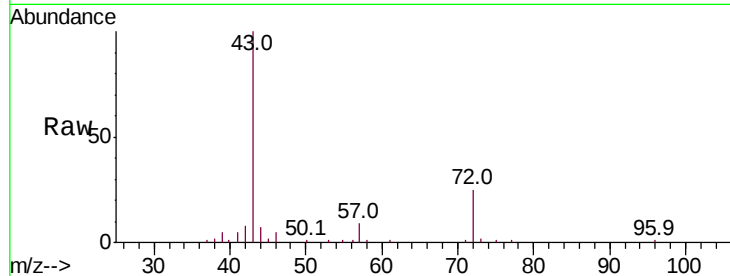
DB8J4

Tot Ion: 43 Resp: 43797

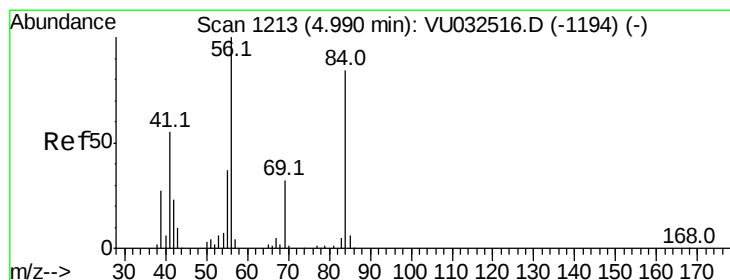
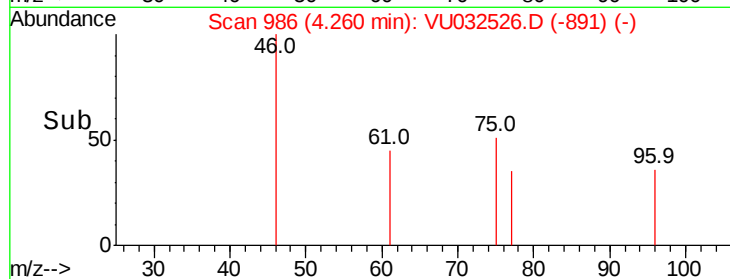
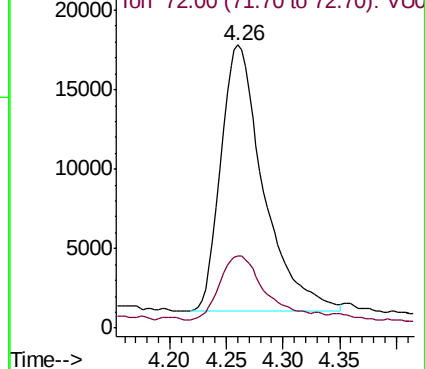
Ion Ratio Lower Upper

43 100

72 25.5 13.1 39.3



Abundance Ion 43.00 (42.70 to 43.70): VU032526.D (-986) (-)



#29

Cyclohexane

Concen: 1.329 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. -0.00 min

Lab File: VU032526.D

Acq: 07 Jun 2019 03:16

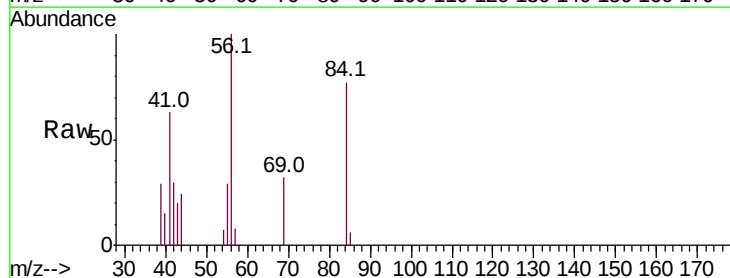
Tgt Ion: 56 Resp: 3469

Ion Ratio Lower Upper

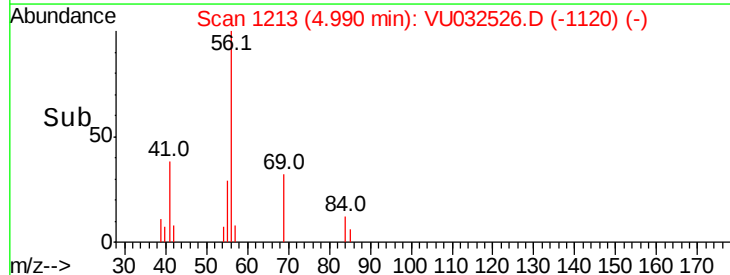
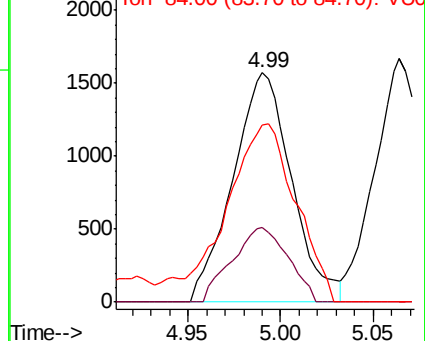
56 100

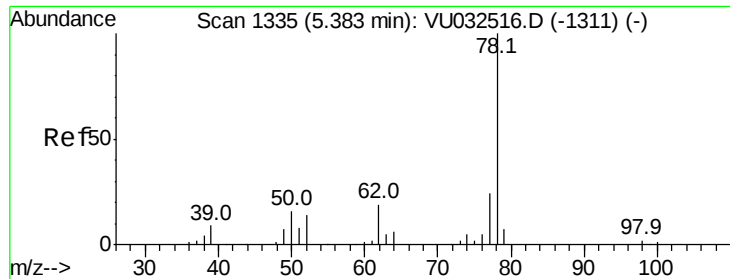
69 30.8 24.7 37.1

84 89.5 69.0 103.4



Abundance Ion 56.00 (55.70 to 56.70): VU032526.D (-1213) (-)





#33

Benzene

Concen: 30.862 ug/L

RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU032526.D

Acq: 07 Jun 2019 03:16

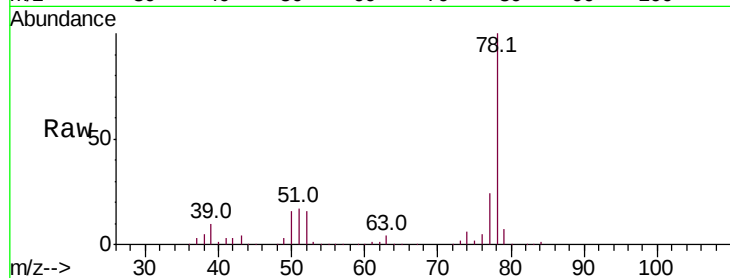
Instrument :

MSVOA_U

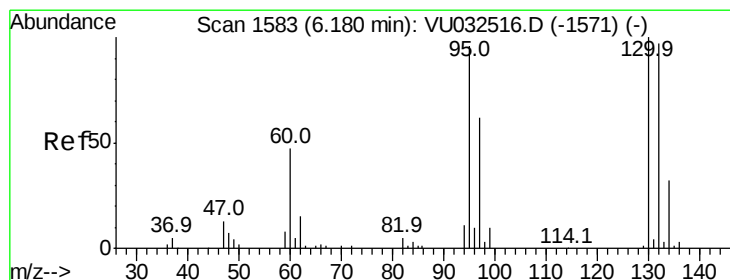
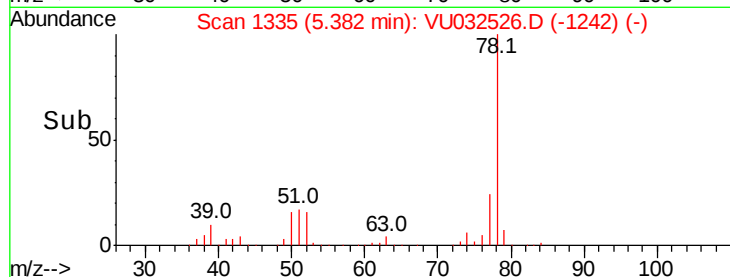
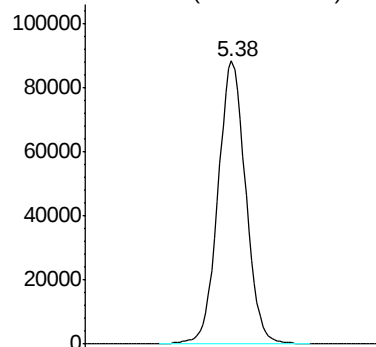
ClientSampleId :

DB8J4

Tgt Ion: 78 Resp: 190312



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 10.330 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU032526.D

Acq: 07 Jun 2019 03:16

Tgt Ion: 95 Resp: 17330

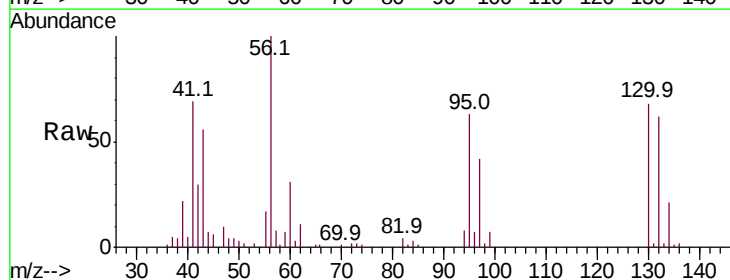
Ion	Ratio	Lower	Upper
95	100		
97	65.7	45.8	85.2
132	97.3	71.0	131.8
130	107.4	73.4	136.2

95 100

97 65.7 45.8 85.2

132 97.3 71.0 131.8

130 107.4 73.4 136.2

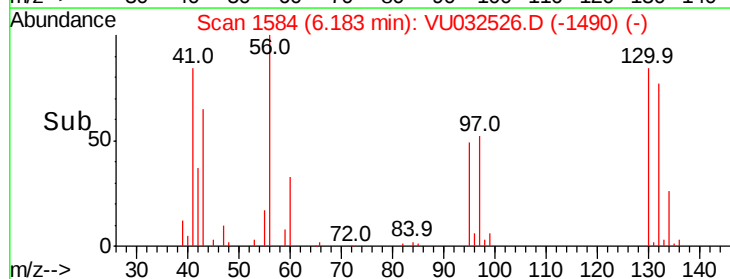


Abundance Ion 95.00 (94.70 to 95.70): VU0

15000 Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

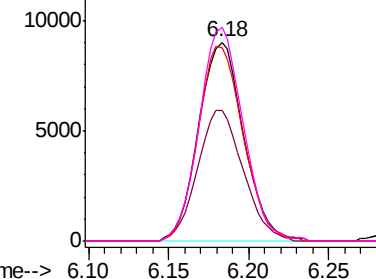


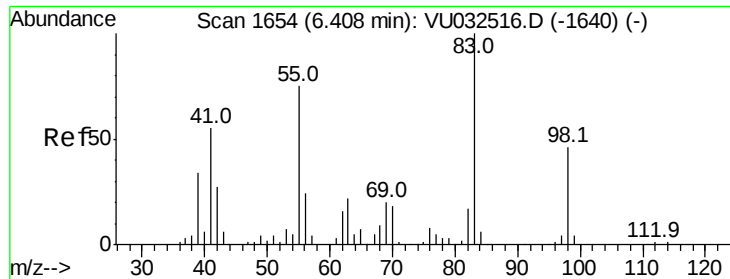
Abundance Ion 95.00 (94.70 to 95.70): VU0

15000 Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

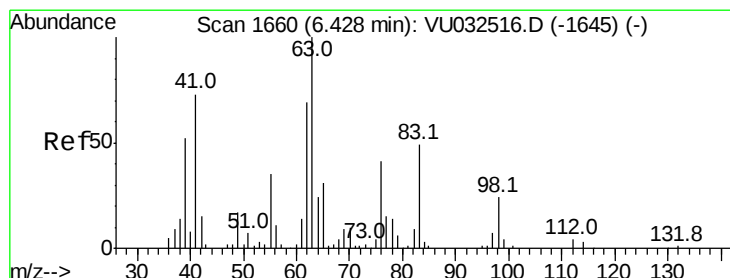
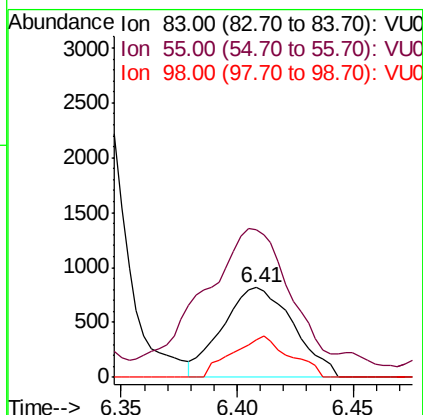
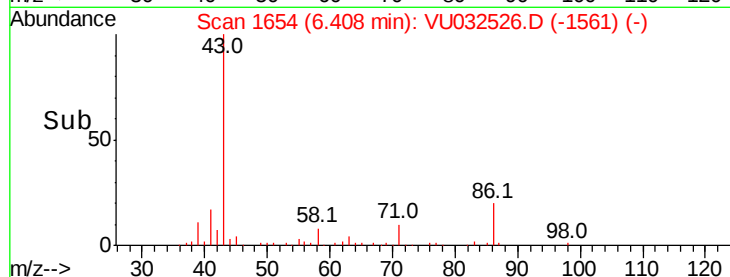
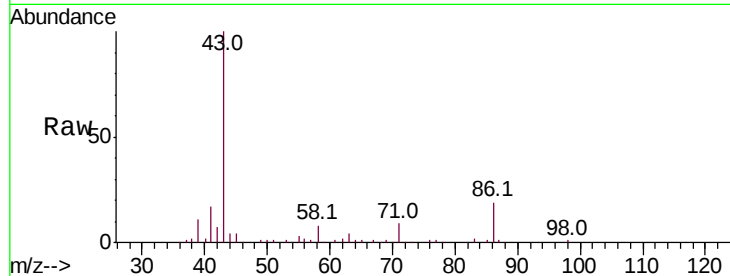




#35
Methylcyclohexane
Concen: 0.638 ug/L
RT: 6.41 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VU032526.D
Acq: 07 Jun 2019 03:16

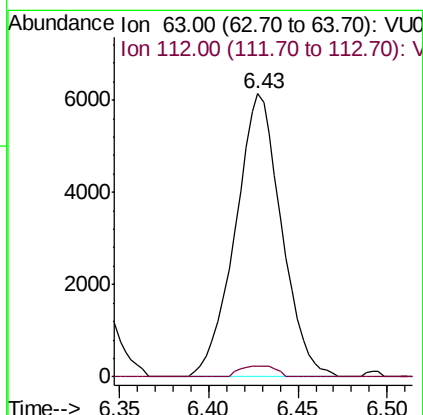
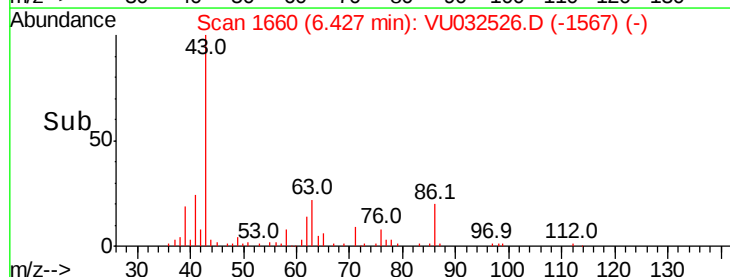
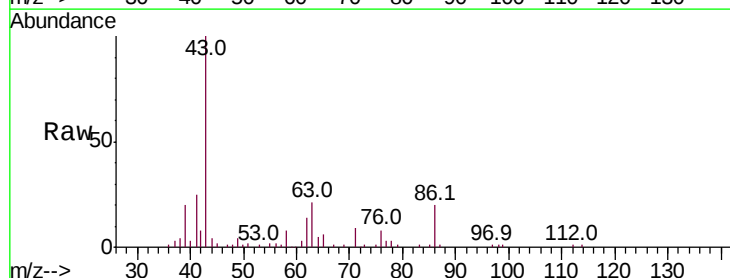
Instrument :
MSVOA_U
ClientSampleId :
DB8J4

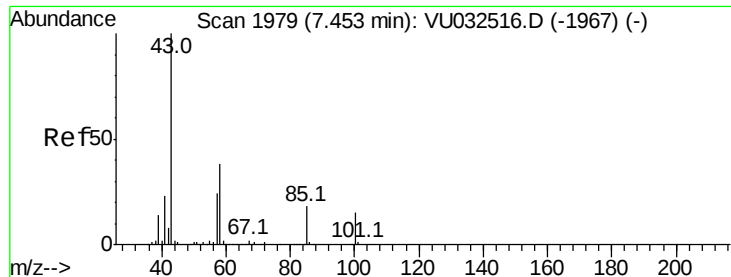
Tot Ion: 83 Resp: 1734
Ion Ratio Lower Upper
83 100
55 166.6 60.2 90.4#
98 37.1 37.4 56.2#



#37
1,2-Dichloropropane
Concen: 6.786 ug/L
RT: 6.43 min Scan# 1660
Delta R.T. -0.00 min
Lab File: VU032526.D
Acq: 07 Jun 2019 03:16

Tgt Ion: 63 Resp: 11093
Ion Ratio Lower Upper
63 100
112 3.1 3.1 4.7#

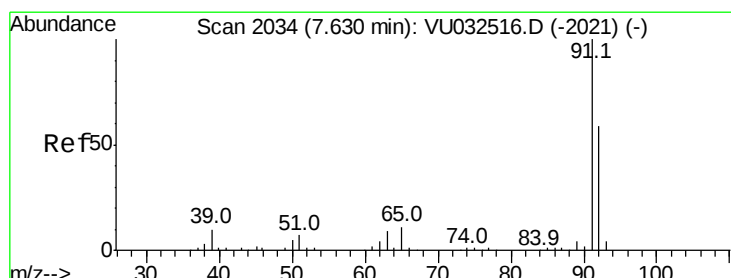
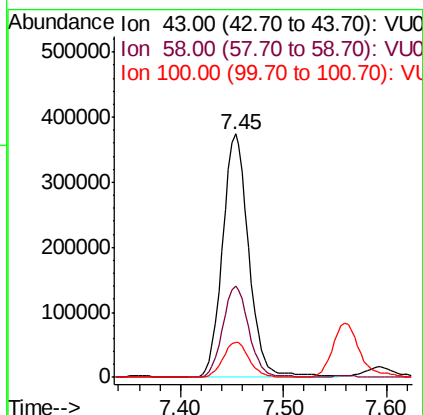
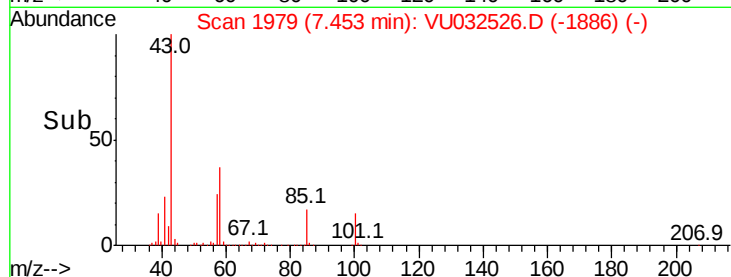
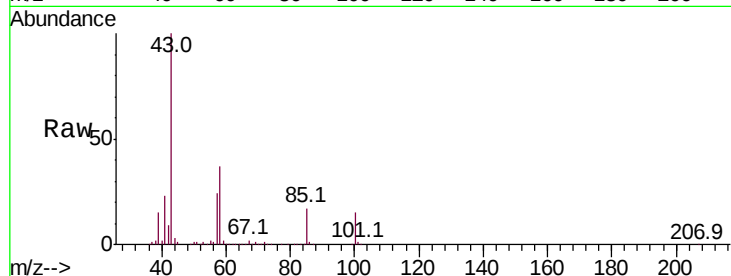




#40
4-Methyl-2-pentanone
Concen: 251.816 ug/L
RT: 7.45 min Scan# 1979
Delta R.T. -0.00 min
Lab File: VU032526.D
Acq: 07 Jun 2019 03:16

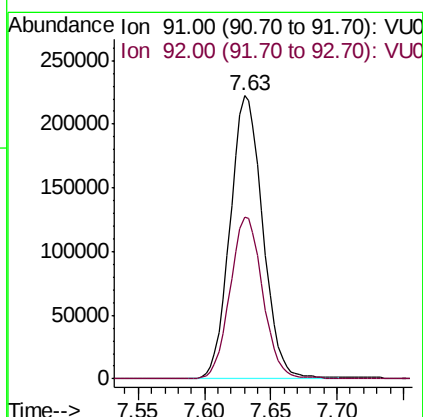
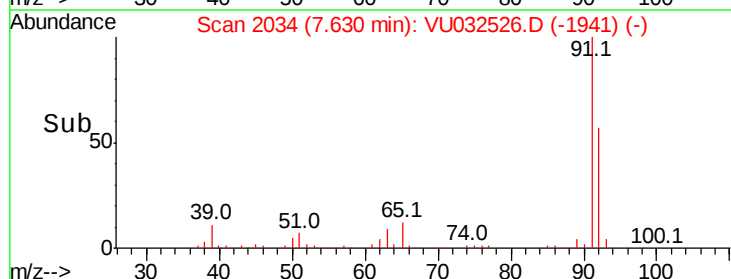
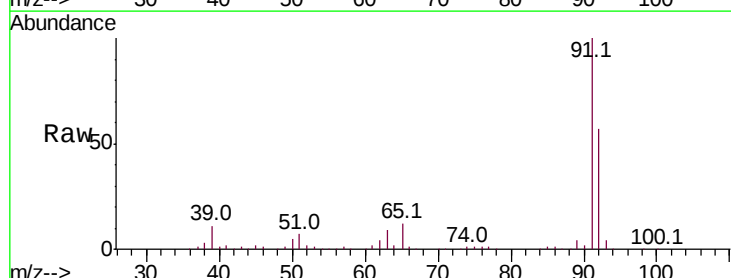
Instrument :
MSVOA_U
ClientSampleId :
DB8J4

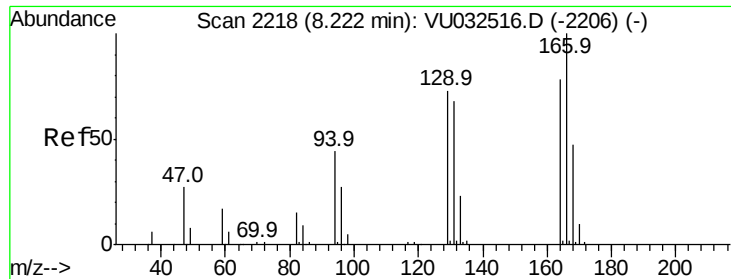
Tot Ion: 43 Resp: 662223
Ion Ratio Lower Upper
43 100
58 37.4 30.8 46.2
100 14.3 12.1 18.1



#42
Toluene
Concen: 56.471 ug/L
RT: 7.63 min Scan# 2034
Delta R.T. -0.00 min
Lab File: VU032526.D
Acq: 07 Jun 2019 03:16

Tgt Ion: 91 Resp: 381369
Ion Ratio Lower Upper
91 100
92 57.0 39.7 73.7





#46

Tetrachloroethene

Concen: 2.047 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU032526.D

Acq: 07 Jun 2019 03:16

Instrument :

MSVOA_U

ClientSampleId :

DB8J4

Tot Ion:164 Resp: 2836

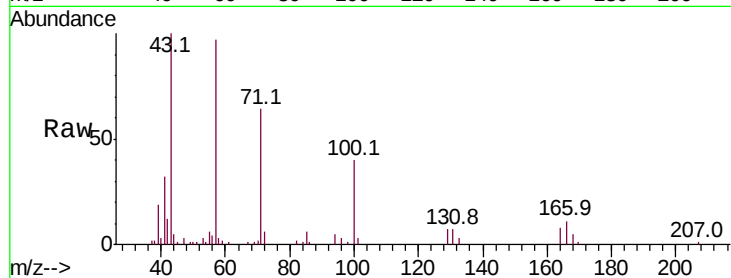
Ion Ratio Lower Upper

164 100

129 83.3 65.3 121.3

131 89.1 64.0 119.0

166 126.9 88.8 165.0

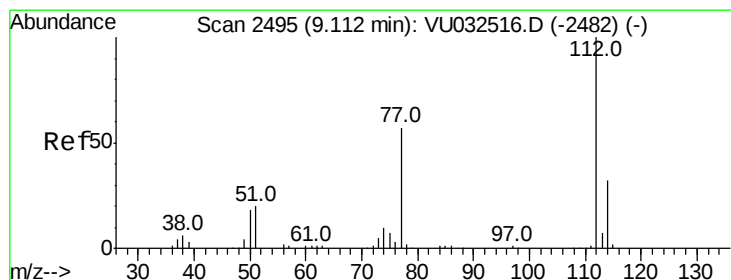
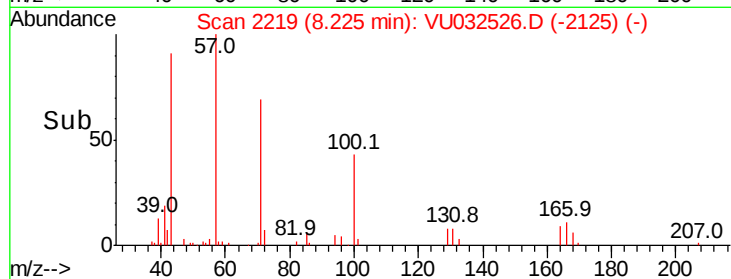
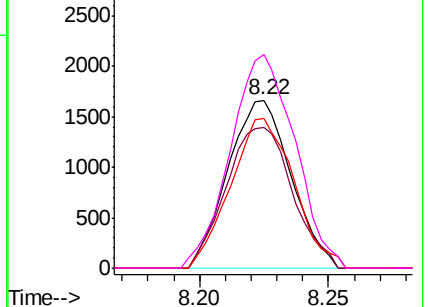


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#51

Chlorobenzene

Concen: 4.922 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU032526.D

Acq: 07 Jun 2019 03:16

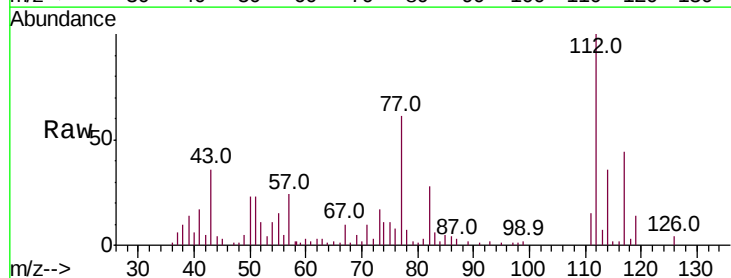
Tgt Ion:112 Resp: 21414

Ion Ratio Lower Upper

112 100

114 35.7 22.6 42.0

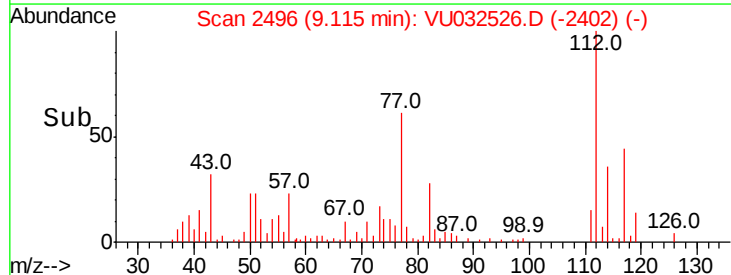
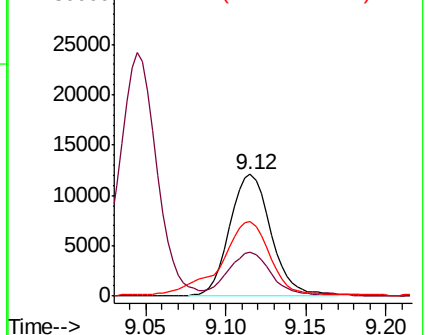
77 61.3 46.1 69.1

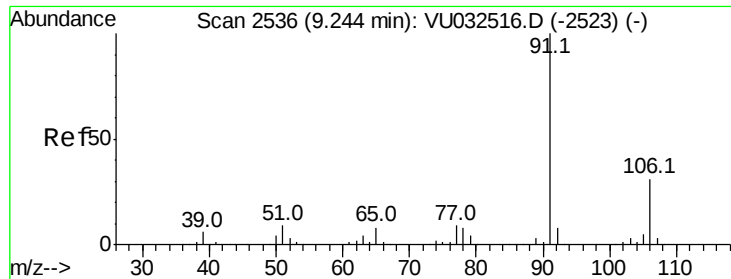


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU

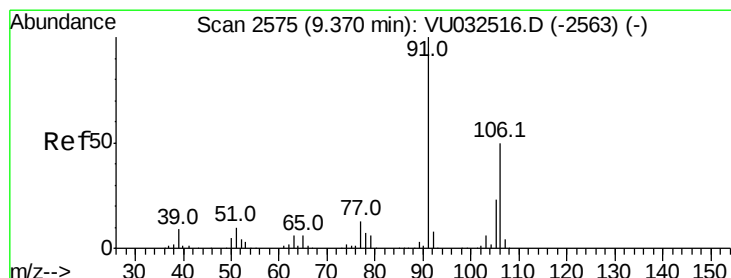
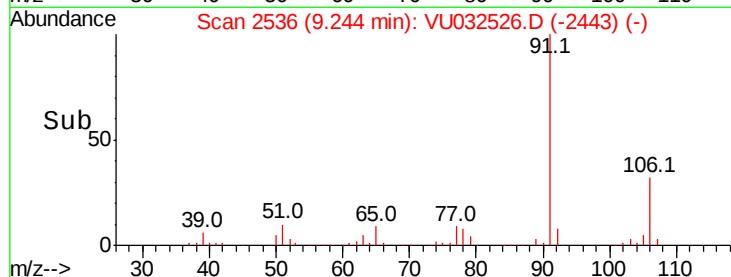
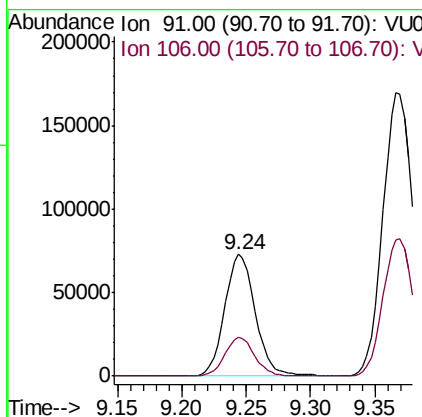
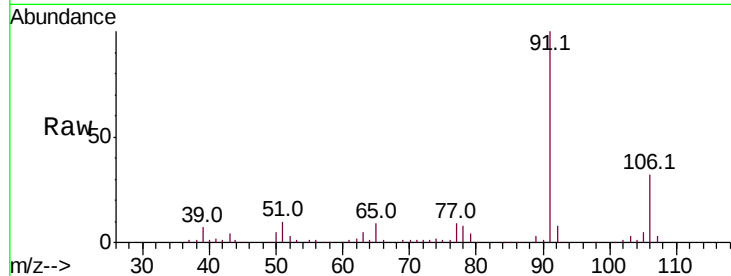




#52
Ethylbenzene
Concen: 15.972 ug/L
RT: 9.24 min Scan# 2536
Delta R.T. -0.00 min
Lab File: VU032526.D
Acq: 07 Jun 2019 03:16

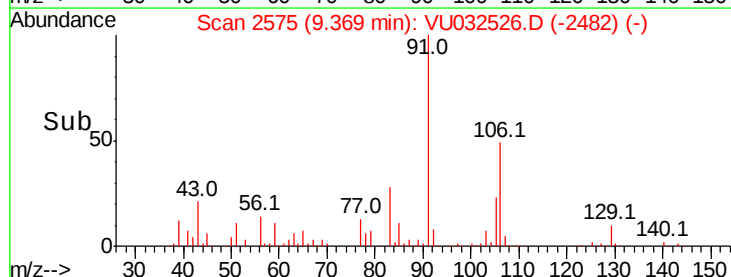
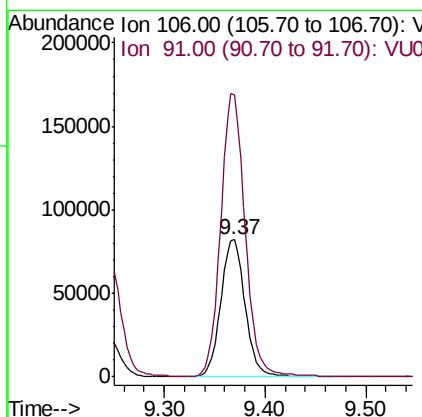
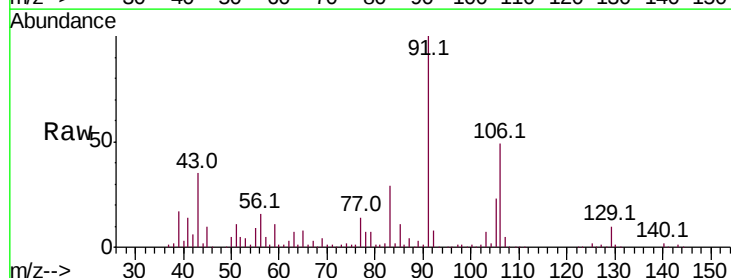
Instrument :
MSVOA_U
ClientSampleId :
DB8J4

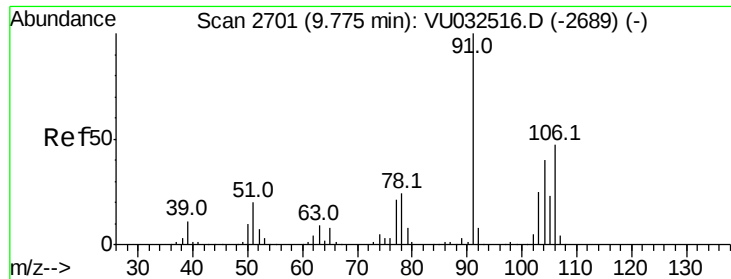
Tot Ion: 91 Resp: 120234
Ion Ratio Lower Upper
91 100
106 32.0 22.0 41.0



#53
m,p-Xylene
Concen: 48.687 ug/L
RT: 9.37 min Scan# 2575
Delta R.T. -0.00 min
Lab File: VU032526.D
Acq: 07 Jun 2019 03:16

Tgt Ion: 106 Resp: 139362
Ion Ratio Lower Upper
106 100
91 205.4 141.7 263.1





#54

o-xylene

Concen: 35.890 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU032526.D

Acq: 07 Jun 2019 03:16

Instrument :

MSVOA_U

ClientSampleId :

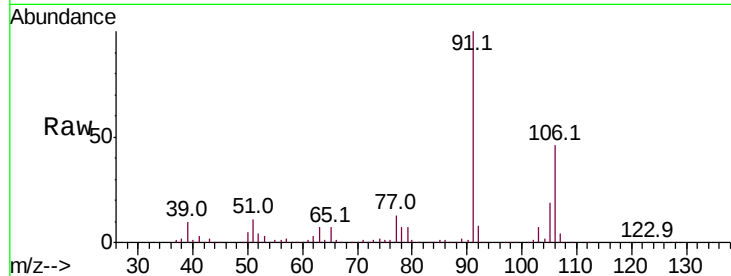
DB8J4

Tot Ion:106 Resp: 102001

Ion Ratio Lower Upper

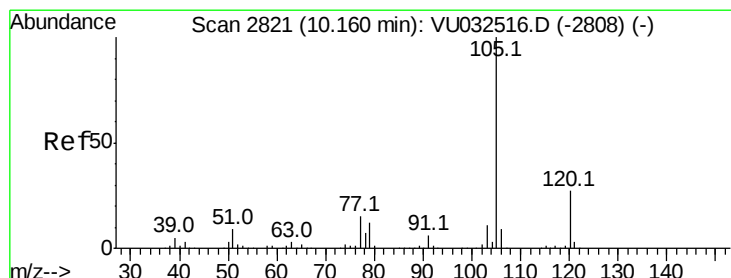
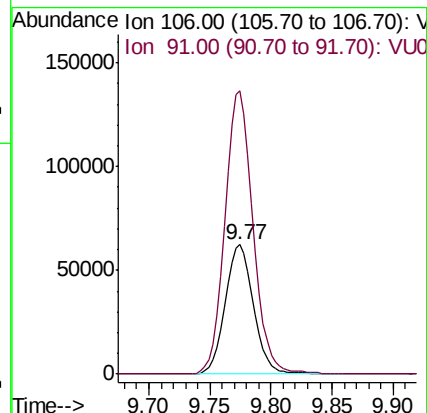
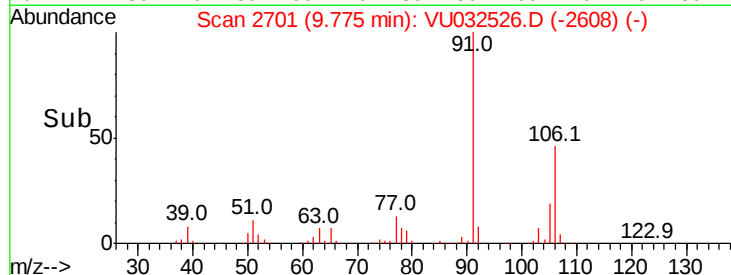
106 100

91 218.2 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#56

Isopropylbenzene

Concen: 6.447 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU032526.D

Acq: 07 Jun 2019 03:16

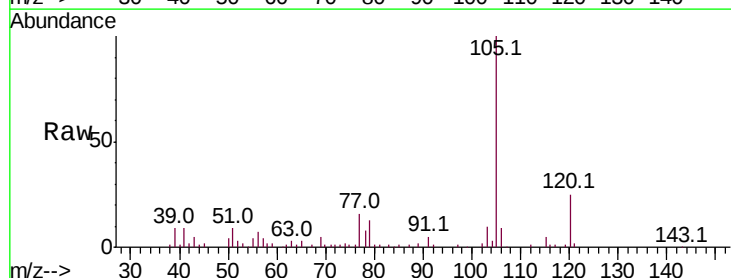
Tgt Ion:105 Resp: 48314

Ion Ratio Lower Upper

105 100

120 25.5 21.6 32.4

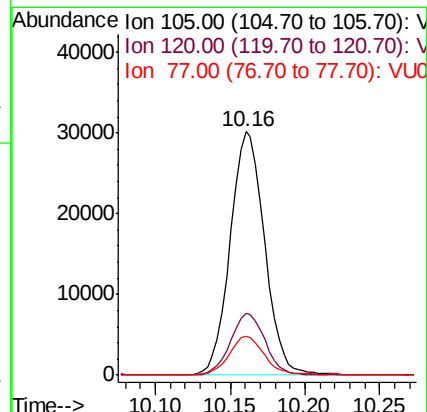
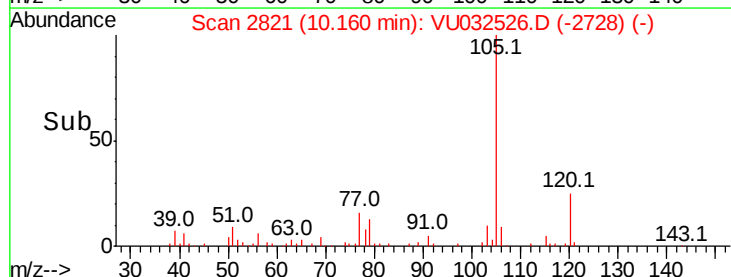
77 16.0 12.4 18.6

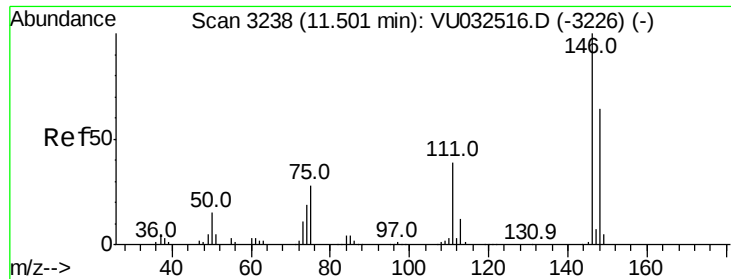


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0

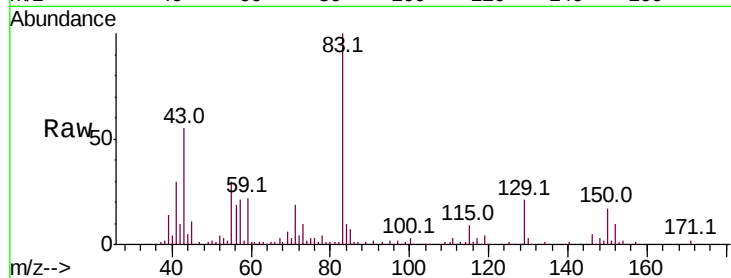




#63
 1,4-Dichlorobenzene
 Concen: 0.979 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU032526.D
 Acq: 07 Jun 2019 03:16

Instrument :
 MSVOA_U
 ClientSampleId :
 DB8J4

Tot Ion:146 Resp: 3781
 Ion Ratio Lower Upper
 146 100
 111 56.1 26.6 49.4#
 148 62.8 44.9 83.5



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

