

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110118\
 Data File : VU027897.D
 Acq On : 01 Nov 2018 12:24
 Operator : MD/SY
 Sample : MDL04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

MMDadoda
 11/5/2018 4:10:24 PM

Quant Time: Nov 02 07:21:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR103018WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Nov 02 08:02:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	84292	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	83376	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	41250	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	23813	3.62	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	72.40%
7) Chloroethane-d5	1.68	69	19658	3.87	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	77.40%
11) 1,1-Dichloroethene-d2	2.28	63	37696	3.01	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	60.20%
20) 2-Butanone-d5	4.19	46	88073	44.83	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	89.66%
24) Chloroform-d	4.65	84	44746	3.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	75.60%
26) 1,2-Dichloroethane-d4	5.31	65	30819	4.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.40%
32) Benzene-d6	5.34	84	88091	3.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	77.20%
36) 1,2-Dichloropropane-d6	6.33	67	31471	3.89	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	77.80%
41) Toluene-d8	7.57	98	82472	3.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.00%
43) trans-1,3-Dichloropropene-	7.85	79	12167	3.89	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	77.80%
46) 2-Hexanone-d5	8.31	63	69380	40.55	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	81.10%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	22888	4.00	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	80.00%
64) 1,2-Dichlorobenzene-d4	11.86	152	31036	3.93	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	78.60%#

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.21	85	2838	0.342 ug/L	98
3) Chloromethane	1.33	50	2636	0.320 ug/L	99
5) Vinyl chloride	1.41	62	2699	0.329 ug/L #	76
6) Bromomethane	1.63	94	1001	0.372 ug/L	79
8) Chloroethane	1.70	64	1755	0.365 ug/L	100
9) Trichlorofluoromethane	1.89	101	4149	0.381 ug/L	94
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	2013	0.363 ug/L	92
12) 1,1-Dichloroethene	2.28	96	2066	0.395 ug/L #	1
13) Acetone	2.33	43	5314	4.291 ug/L	79
14) Carbon disulfide	2.48	76	5670	0.303 ug/L #	87
15) Methyl Acetate	2.62	43	1283m	0.387 ug/L	
16) Methylene chloride	2.70	84	2354	0.400 ug/L	97
17) Methyl tert-butyl Ether	3.01	73	4920	0.315 ug/L	97
18) trans-1,2-Dichloroethene	2.98	96	1799	0.323 ug/L	93
19) 1,1-Dichloroethane	3.45	63	3755	0.320 ug/L	90
21) 2-Butanone	4.29	43	7314m	3.397 ug/L	
22) cis-1,2-Dichloroethene	4.22	96	2034	0.316 ug/L	89

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110118\
 Data File : VU027897.D
 Acq On : 01 Nov 2018 12:24
 Operator : MD/SY
 Sample : MDL04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

MMDadoda
 11/5/2018 4:10:24 PM

Quant Time: Nov 02 07:21:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR103018WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Nov 02 08:02:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.55	128	748	0.281	ug/L #	84
25) Chloroform	4.68	83	8889	0.746	ug/L	95
27) 1,2-Dichloroethane	5.41	62	3147	0.379	ug/L	99
29) 1,1,1-Trichloroethane	4.91	97	3310	0.308	ug/L #	88
30) Cyclohexane	4.99	56	4106	0.325	ug/L #	95
31) Carbon tetrachloride	5.14	117	3044	0.330	ug/L	92
33) Benzene	5.40	78	7869	0.298	ug/L	100
34) Trichloroethene	6.19	95	2113	0.307	ug/L	86
35) Methylcyclohexane	6.41	83	3798	0.325	ug/L	97
37) 1,2-Dichloropropane	6.43	63	2726	0.362	ug/L #	90
38) Bromodichloromethane	6.76	83	2539	0.289	ug/L #	86
39) cis-1,3-Dichloropropene	7.27	75	3425	0.318	ug/L	90
40) 4-Methyl-2-pentanone	7.47	43	17029	3.205	ug/L	97
42) Toluene	7.64	91	8549	0.309	ug/L	89
44) trans-1,3-Dichloropropene	7.89	75	2890m	0.312	ug/L	
45) 1,1,2-Trichloroethane	8.07	97	1451	0.314	ug/L #	82
47) Tetrachloroethene	8.22	164	1876	0.355	ug/L	89
48) 2-Hexanone	8.37	43	13294	3.470	ug/L	97
49) Dibromochloromethane	8.48	129	1589	0.284	ug/L	87
50) 1,2-Dibromoethane	8.59	107	1365	0.308	ug/L #	64
51) Chlorobenzene	9.12	112	5294	0.309	ug/L	97
52) Ethylbenzene	9.25	91	10109	0.321	ug/L	95
53) m,p-xylene	9.38	106	3568	0.312	ug/L	97
54) o-xylene	9.78	106	3187	0.284	ug/L	75
55) Styrene	9.80	104	5372	0.286	ug/L	91
56) Isopropylbenzene	10.17	105	9543	0.312	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	1972	0.327	ug/L #	97
59) 1,2,3-Trichloropropane	10.49	75	1452	0.318	ug/L	95
61) Bromoform	9.96	173	691	0.228	ug/L #	95
62) 1,3-Dichlorobenzene	11.42	146	4272	0.322	ug/L	94
63) 1,4-Dichlorobenzene	11.51	146	4404	0.332	ug/L #	88
65) 1,2-Dichlorobenzene	11.88	146	4037	0.322	ug/L #	81
67) 1,3,5-Trichlorobenzene	12.89	180	3327	0.312	ug/L	96
68) 1,2,4-trichlorobenzene	13.51	180	2610	0.287	ug/L	91
69) Naphthalene	13.75	128	3764	0.267	ug/L #	83
70) 1,2,3-Trichlorobenzene	13.99	180	2596	0.314	ug/L #	90

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

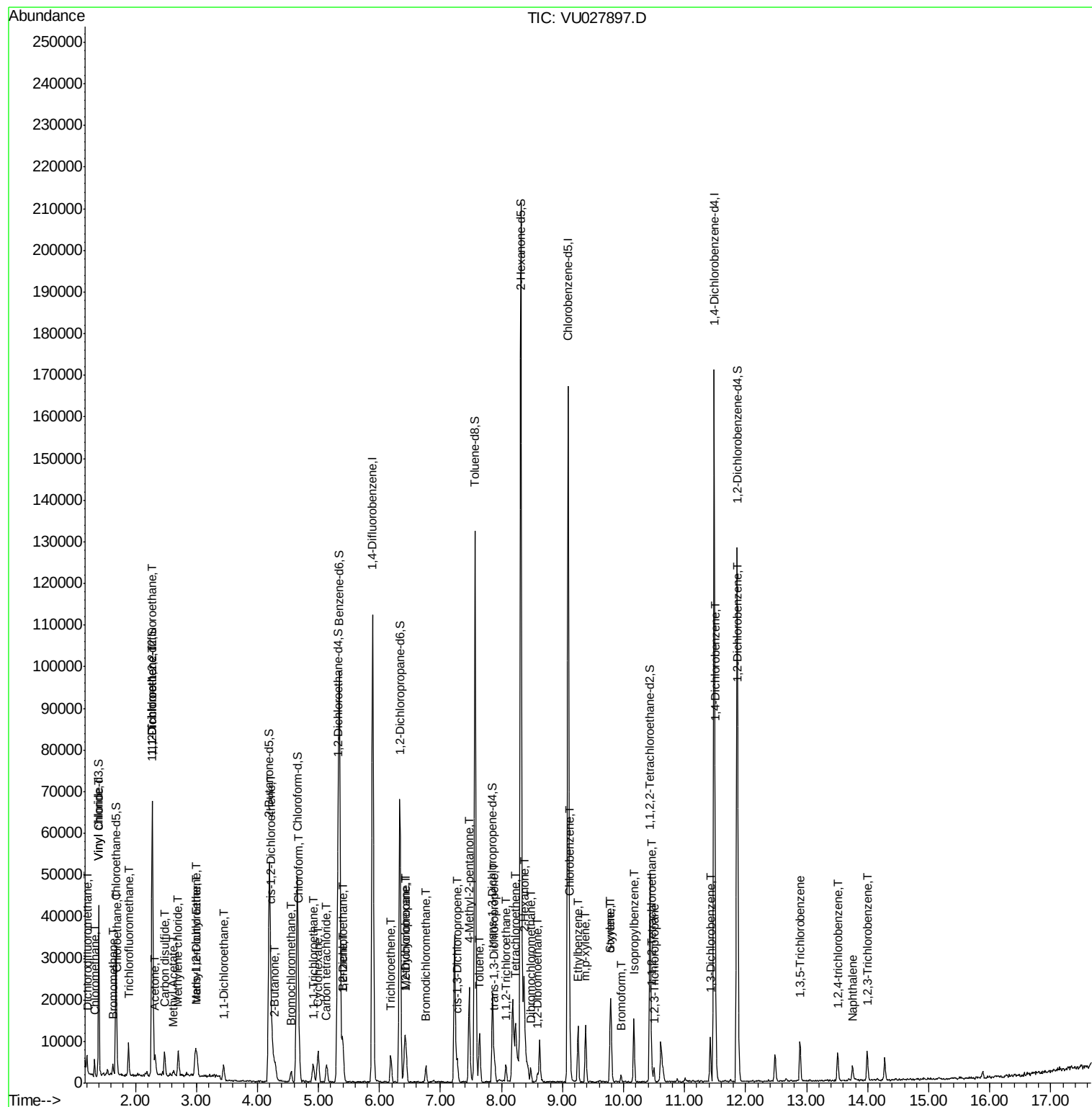
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU110118\
Data File : VU027897.D
Acq On : 01 Nov 2018 12:24
Operator : MD/SY
Sample : MDL04
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 8 Sample Multiplier: 1

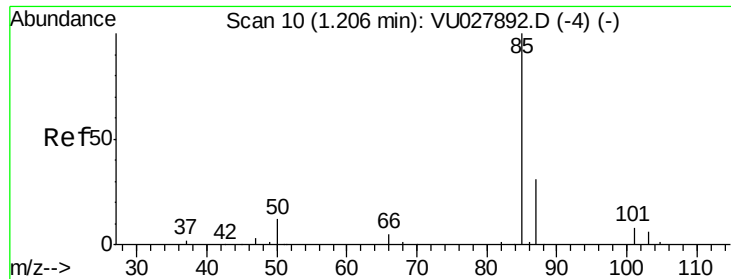
Instrument :
MSVOA_U
ClientSampleId :
MDL04

Manual Integrations
APPROVED

MMDadoda
11/5/2018 4:10:24 PM

Quant Time: Nov 02 07:21:34 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR103018WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Nov 02 08:02:52 2018
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.342 ug/L

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU027897.D

Acq: 01 Nov 2018 12:24

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 85 Resp: 2838

Ion Ratio Lower Upper

85 100

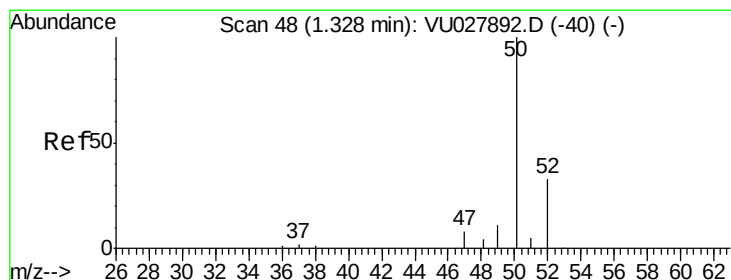
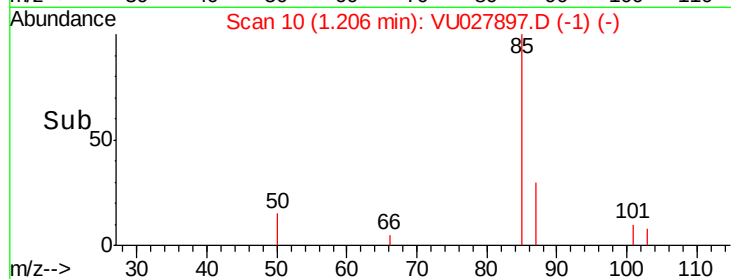
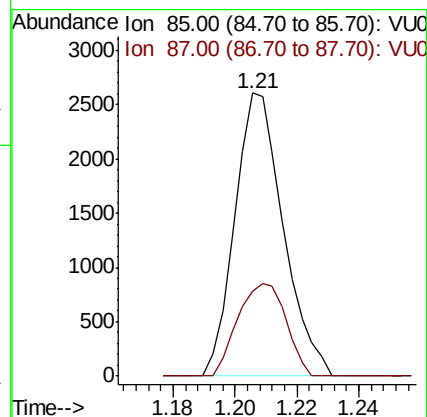
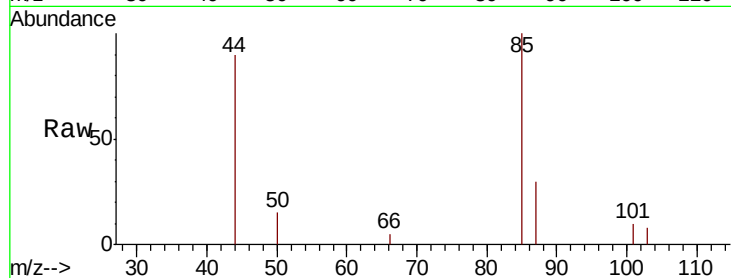
87 32.5 25.2 37.8

Manual Integrations

APPROVED

MMDadoda

11/5/2018 4:10:24 PM



#3

Chloromethane

Concen: 0.320 ug/L

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU027897.D

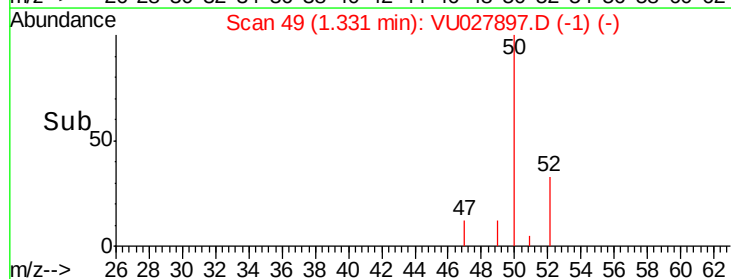
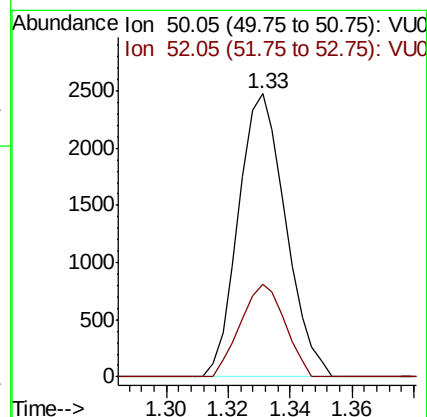
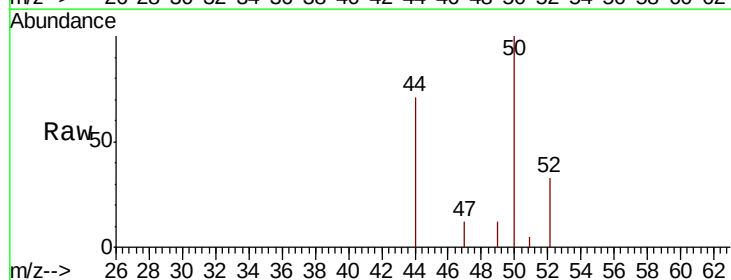
Acq: 01 Nov 2018 12:24

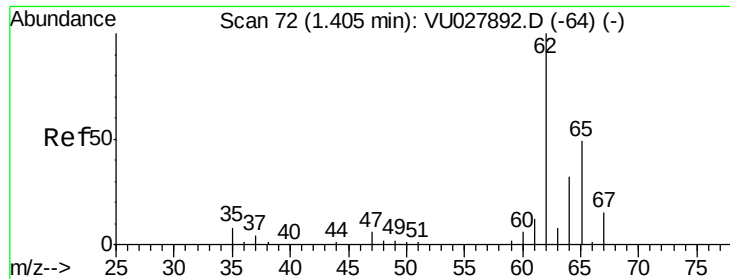
Tgt Ion: 50 Resp: 2636

Ion Ratio Lower Upper

50 100

52 32.6 22.3 41.5





#5

Vinyl chloride

Concen: 0.329 ug/L

RT: 1.41 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU027897.D

Acq: 01 Nov 2018 12:24

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 62 Resp: 2699

Ion Ratio Lower Upper

62 100

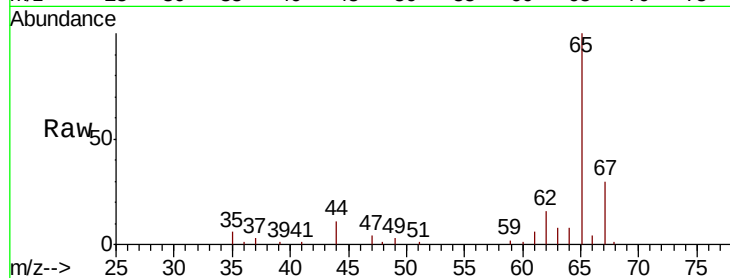
64 48.0 24.0 44.6#

Manual Integrations

APPROVED

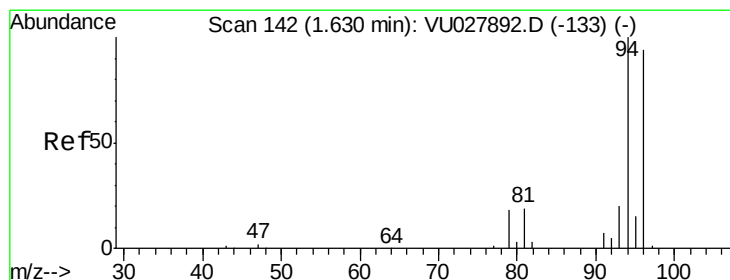
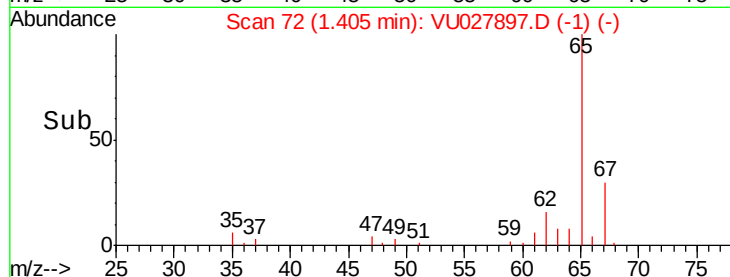
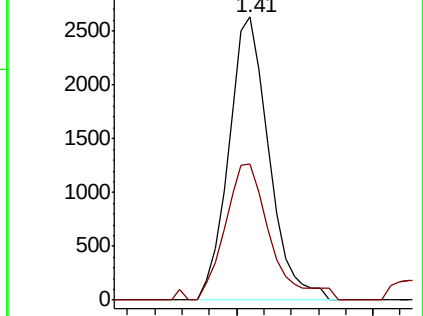
MMDadoda

11/5/2018 4:10:24 PM



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 0.372 ug/L

RT: 1.63 min Scan# 143

Delta R.T. 0.00 min

Lab File: VU027897.D

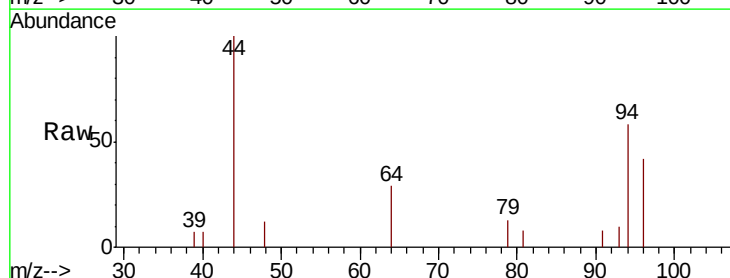
Acq: 01 Nov 2018 12:24

Tgt Ion: 94 Resp: 1001

Ion Ratio Lower Upper

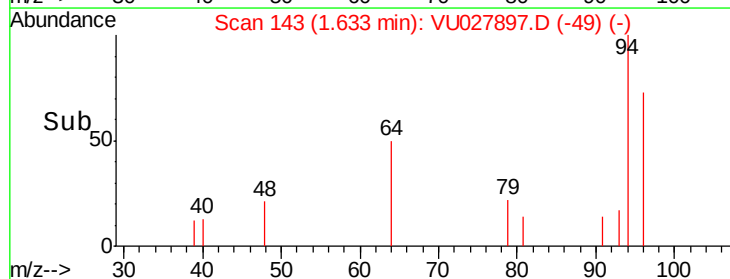
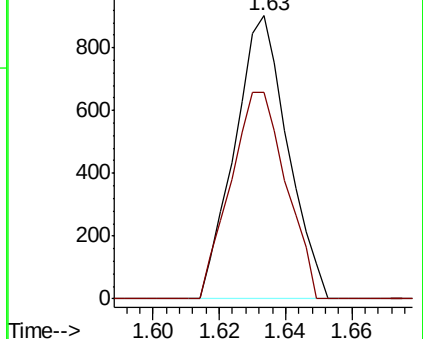
94 100

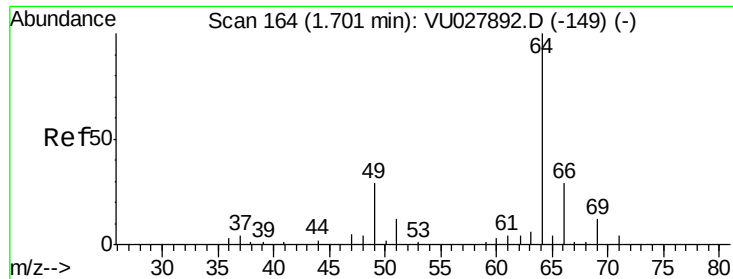
96 72.8 65.0 120.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 0.365 ug/L

RT: 1.70 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU027897.D

Acq: 01 Nov 2018 12:24

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 64 Resp: 1755

Ion Ratio Lower Upper

64 100

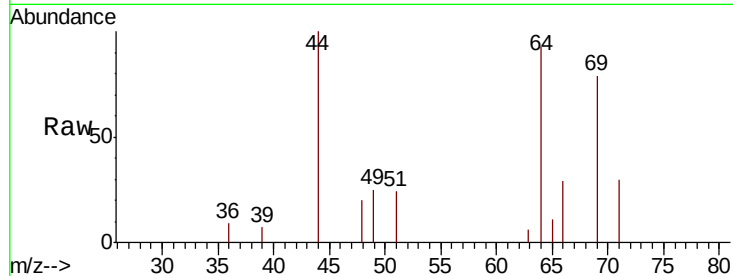
66 31.3 21.8 40.6

Manual Integrations

APPROVED

MMDadoda

11/5/2018 4:10:24 PM



Abundance Ion 64.10 (63.80 to 64.80): VU027892.D (-149) (-)

Ion 66.05 (65.75 to 66.75): VU027892.D (-149) (-)

1.70

1500

1000

500

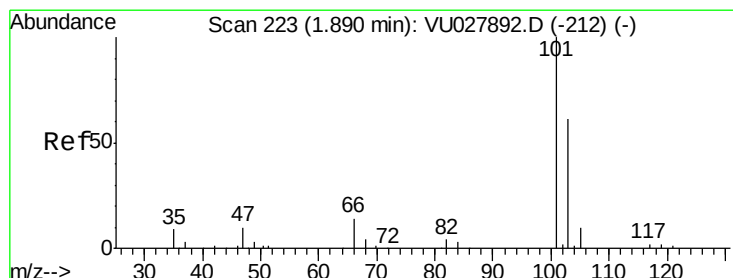
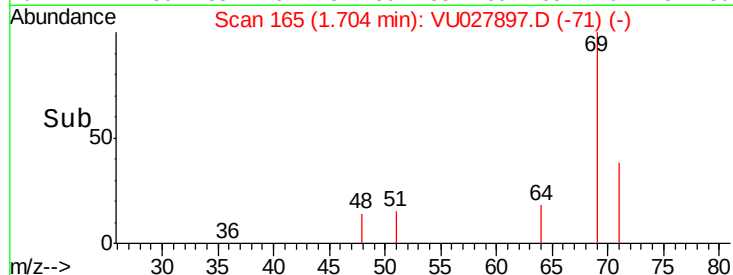
0

1.65

1.70

1.75

Time-->



#9

Trichlorofluoromethane

Concen: 0.381 ug/L

RT: 1.89 min Scan# 223

Delta R.T. 0.00 min

Lab File: VU027897.D

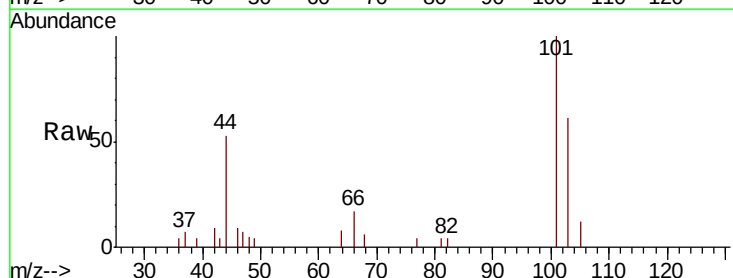
Acq: 01 Nov 2018 12:24

Tgt Ion: 101 Resp: 4149

Ion Ratio Lower Upper

101 100

103 59.7 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VU027892.D (-212) (-)

Ion 103.00 (102.70 to 103.70): VU027892.D (-212) (-)

1.89

3000

2000

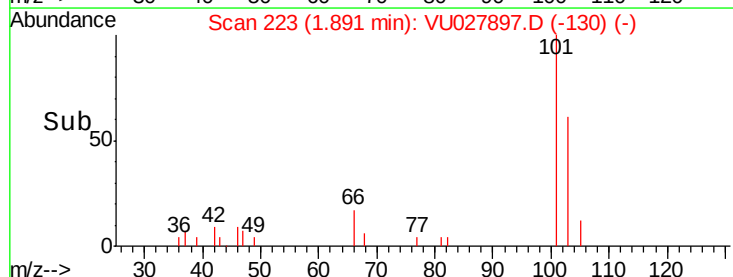
1000

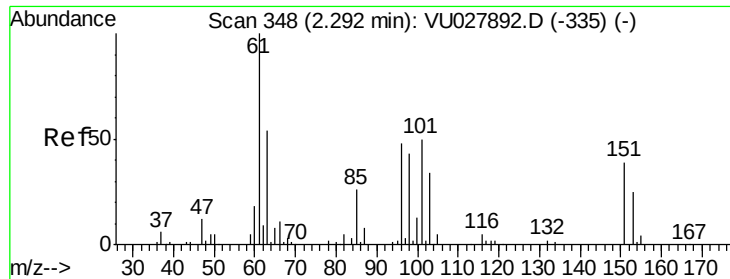
0

1.85

1.90

Time-->





#10

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

Concen: 0.363 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.00 min

Lab File: VU027897.D

Acq: 01 Nov 2018 12:24

Instrument :

MSVOA_U

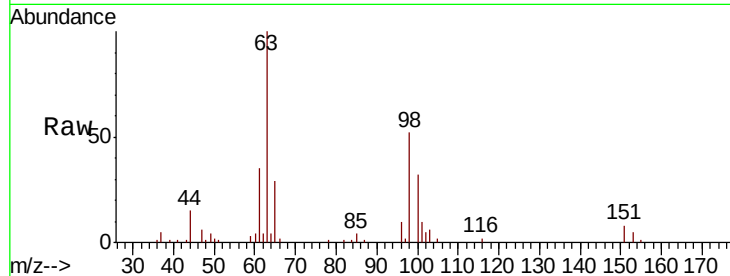
ClientSampled :

MDL04

Tot Ion:	101	Resp:	2013
Ion Ratio	Lower	Upper	
101	100		
85	43.5	37.1	55.7
151	66.8	59.9	89.9

Manual Integrations
APPROVED

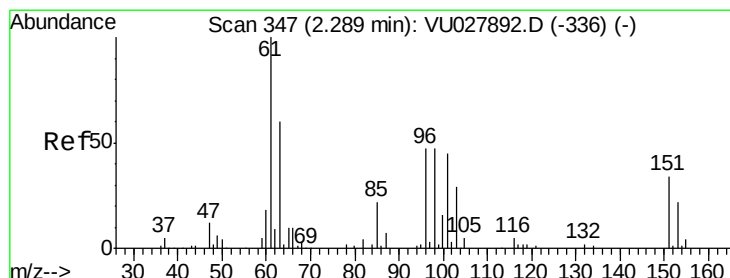
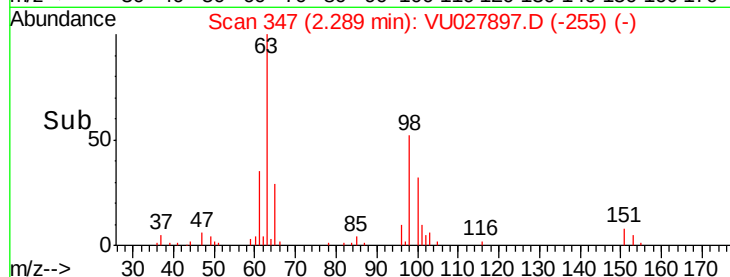
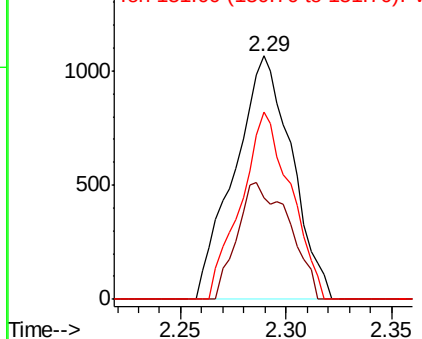
MMDadoda
11/5/2018 4:10:24 PM



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: 0.395 ug/L

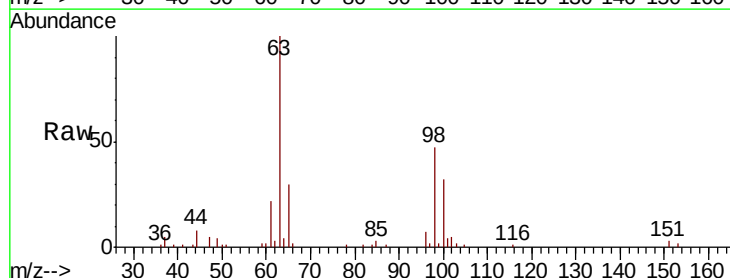
RT: 2.28 min Scan# 345

Delta R.T. -0.01 min

Lab File: VU027897.D

Acq: 01 Nov 2018 12:24

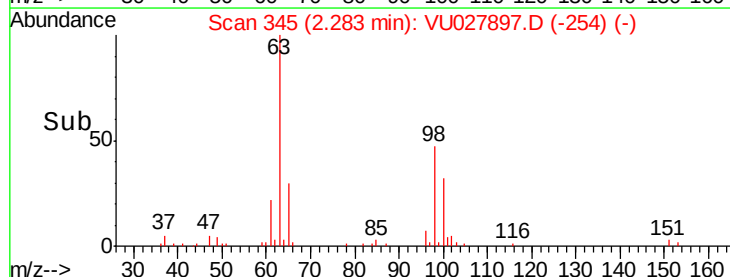
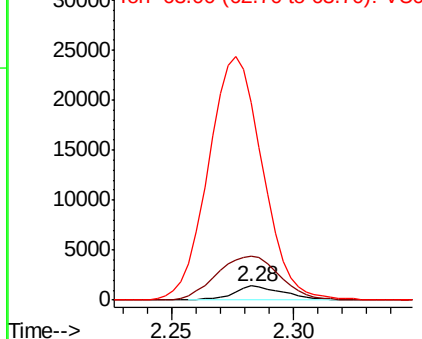
Tgt Ion:	96	Resp:	2066
Ion Ratio	Lower	Upper	
96	100		
61	312.8	141.1	262.1#
63	1393.4	113.0	209.9#

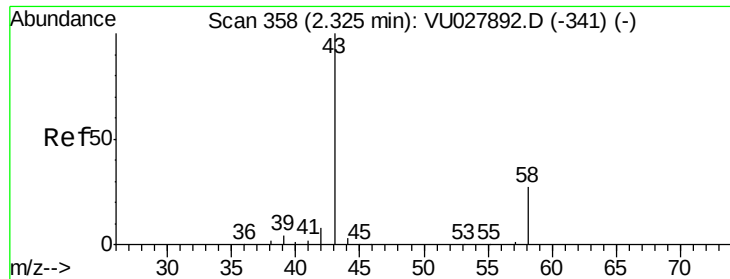


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





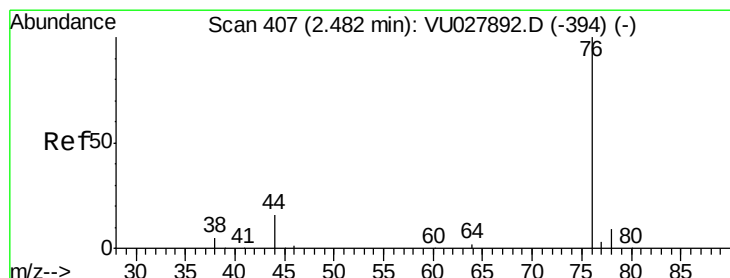
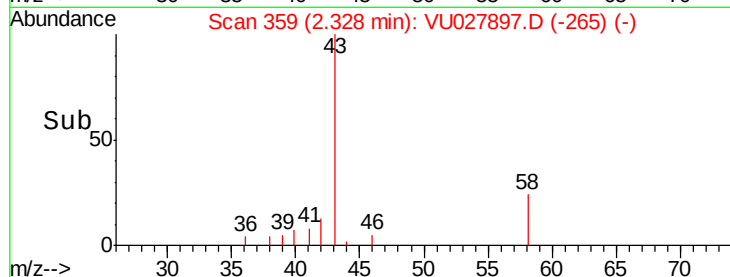
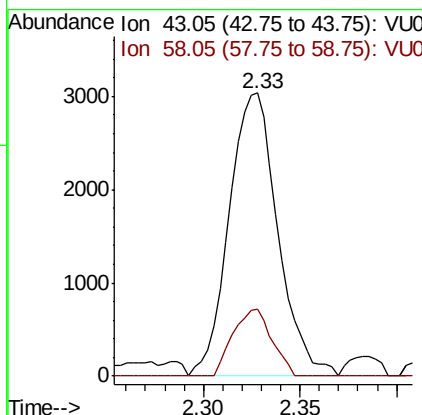
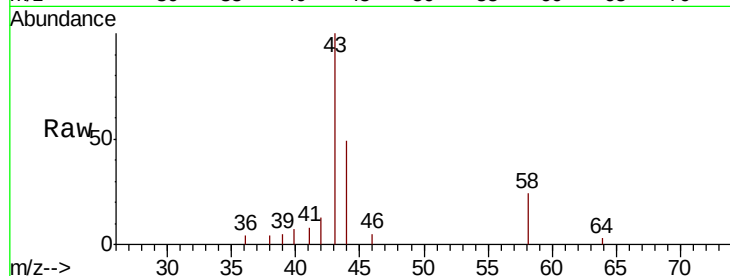
#13
Acetone
Concen: 4.291 ug/L
RT: 2.33 min Scan# 359
Delta R.T. 0.00 min
Lab File: VU027897.D
Acq: 01 Nov 2018 12:24

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	43	58	Ratio	Lower	Upper
43	100				
58	18.9		0.0	61.4	

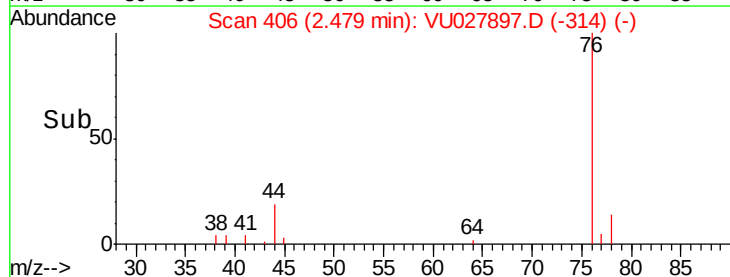
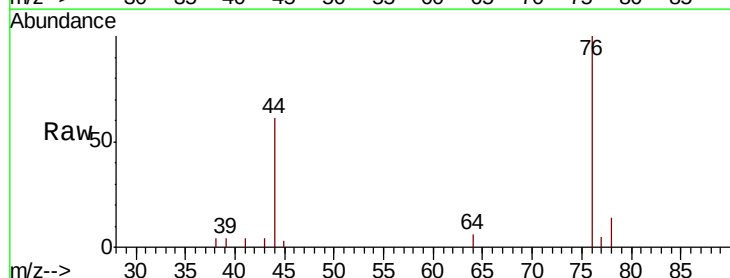
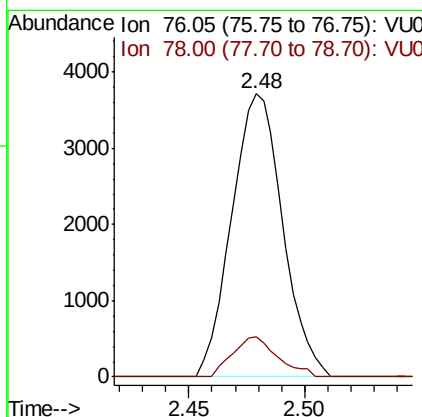
Manual Integrations
APPROVED

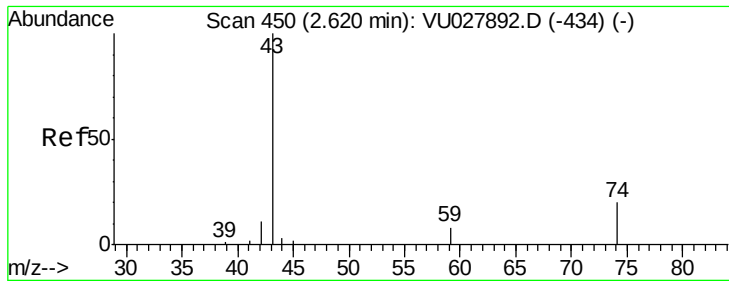
MMDadoda
11/5/2018 4:10:24 PM



#14
Carbon disulfide
Concen: 0.303 ug/L
RT: 2.48 min Scan# 406
Delta R.T. -0.00 min
Lab File: VU027897.D
Acq: 01 Nov 2018 12:24

Tgt Ion	76	78	Ratio	Lower	Upper
76	100				
78	14.1		7.5	11.3	





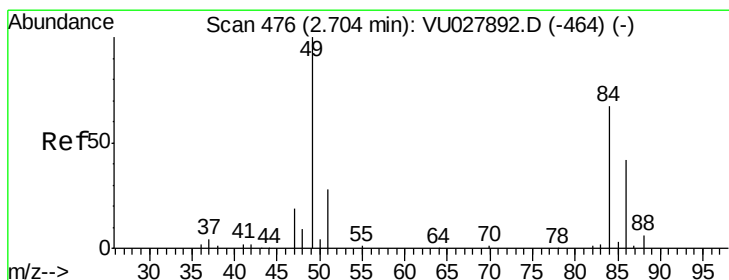
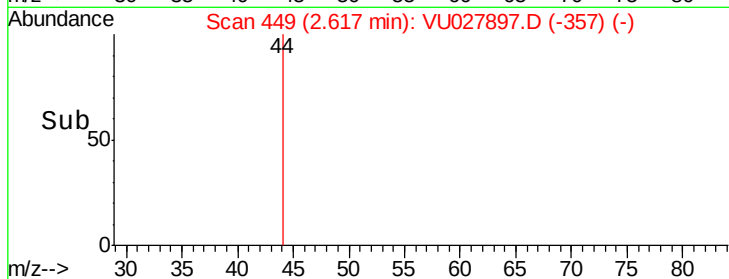
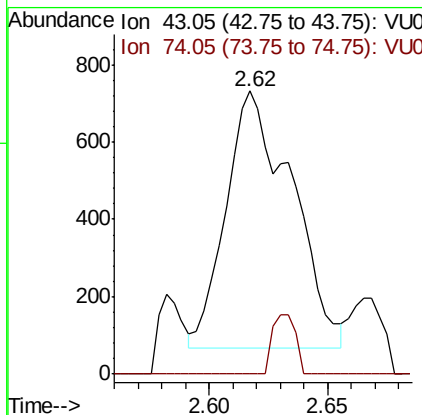
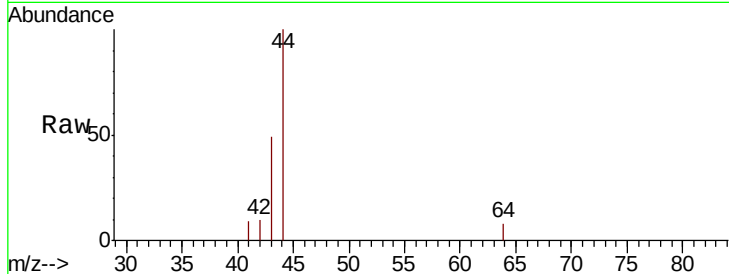
#15
Methvl Acetate
Concen: 0.387 ug/L m
RT: 2.62 min Scan# 449
Delta R.T. -0.00 min
Lab File: VU027897.D
Acq: 01 Nov 2018 12:24

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion: 43 Resp: 1283
Ion Ratio Lower Upper
43 100
74 8.0 14.9 22.3#

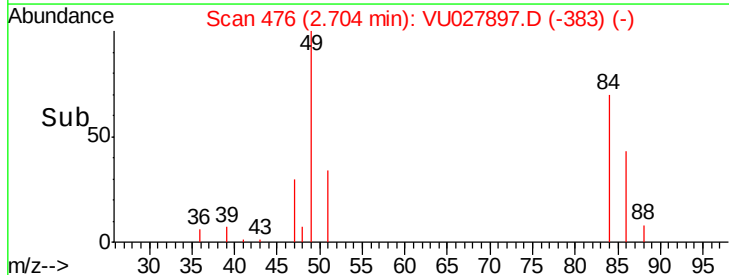
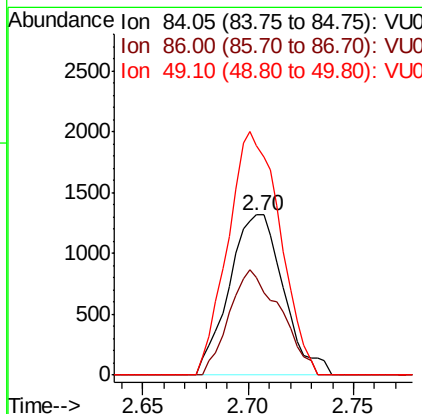
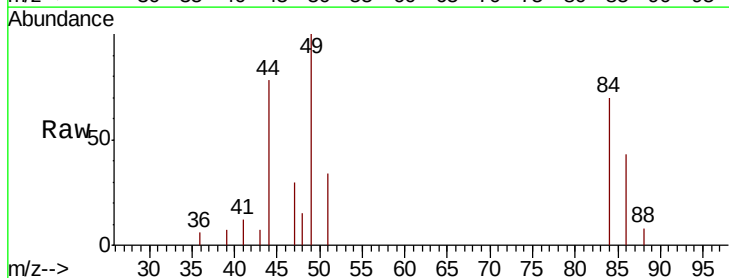
Manual Integrations
APPROVED

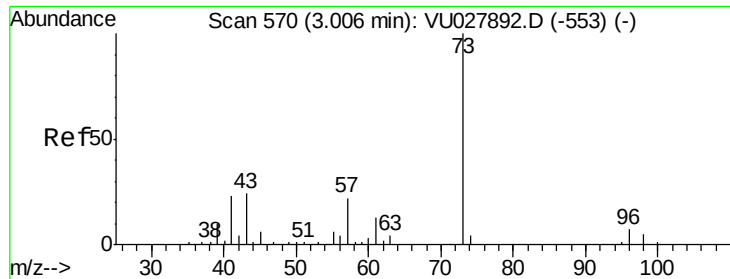
MMDadoda
11/5/2018 4:10:24 PM



#16
Methylene chloride
Concen: 0.400 ug/L
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027897.D
Acq: 01 Nov 2018 12:24

Tgt Ion: 84 Resp: 2354
Ion Ratio Lower Upper
84 100
86 60.9 46.7 86.7
49 142.9 101.3 188.1





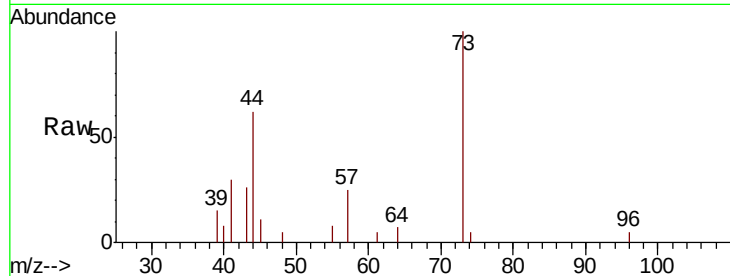
#17
Methyl tert-butyl Ether
Concen: 0.315 ug/L
RT: 3.01 min Scan# 571
Delta R.T. 0.00 min
Lab File: VU027897.D
Acq: 01 Nov 2018 12:24

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
73	100		
43	22.2	18.7	28.1
57	21.4	18.7	28.1

Manual Integrations
APPROVED

MMDadoda
11/5/2018 4:10:24 PM

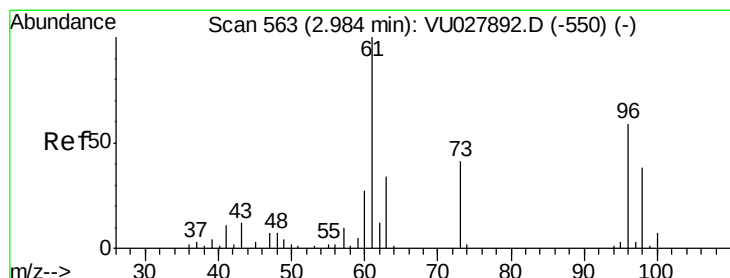
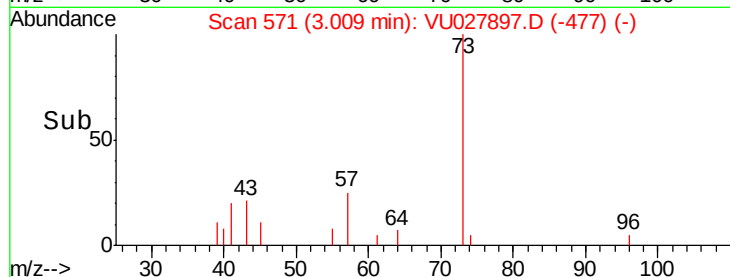
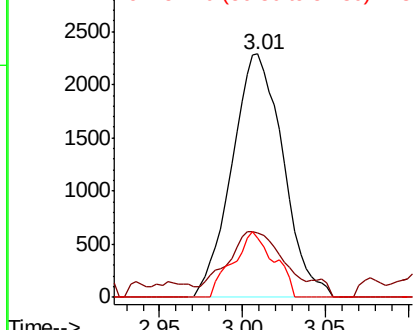


Abundance

Ion 73.10 (72.80 to 73.80): VU0

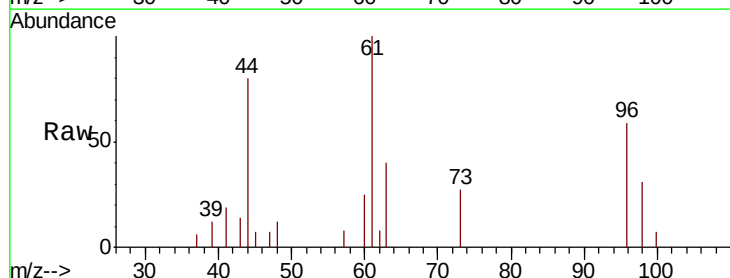
Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0



#18
trans-1,2-Dichloroethene
Concen: 0.323 ug/L
RT: 2.98 min Scan# 563
Delta R.T. 0.00 min
Lab File: VU027897.D
Acq: 01 Nov 2018 12:24

Tgt Ion	Ratio	Lower	Upper
96	100		
61	170.9	115.2	214.0
98	52.5	44.0	81.8

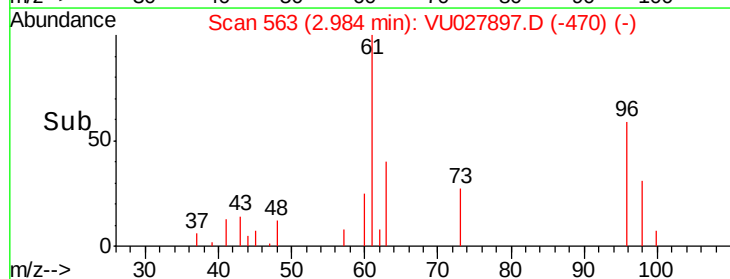
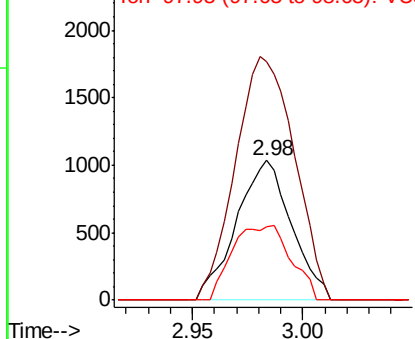


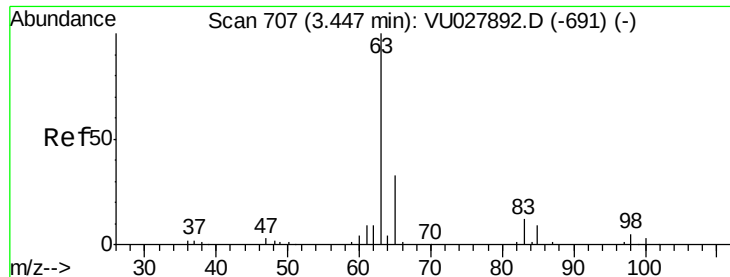
Abundance

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





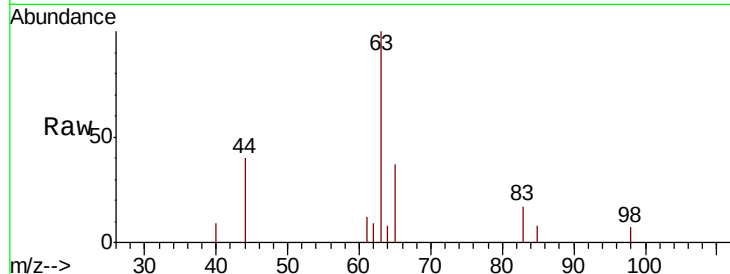
#19
 1,1-Dichloroethane
 Concen: 0.320 ug/L
 RT: 3.45 min Scan# 708
 Delta R.T. 0.00 min
 Lab File: VU027897.D
 Acq: 01 Nov 2018 12:24

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

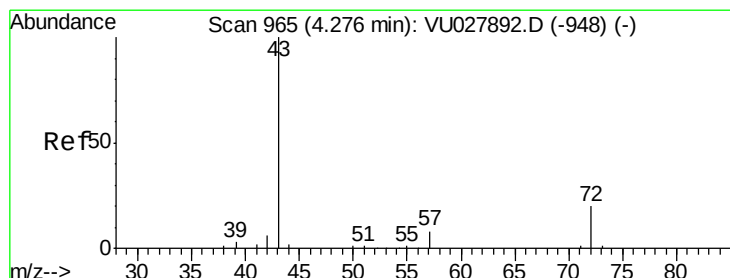
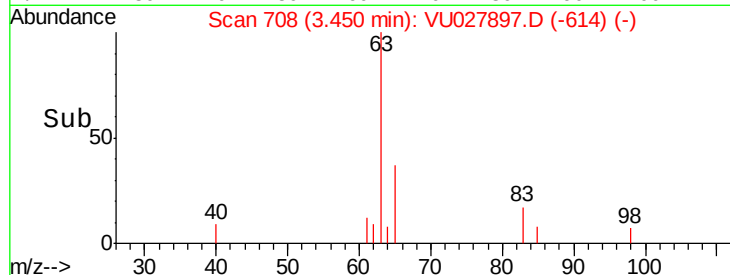
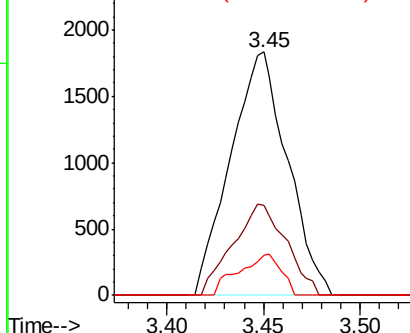
Tot Ion:	63	Resp:	3755
Ion	Ratio	Lower	Upper
63	100		
65	36.9	21.8	40.4
83	16.6	9.4	17.4

Manual Integrations
 APPROVED

MMDadoda
 11/5/2018 4:10:24 PM

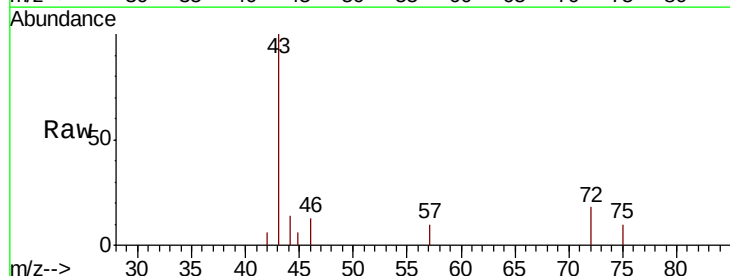


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

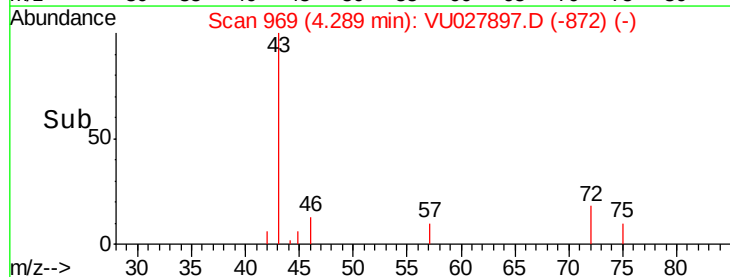
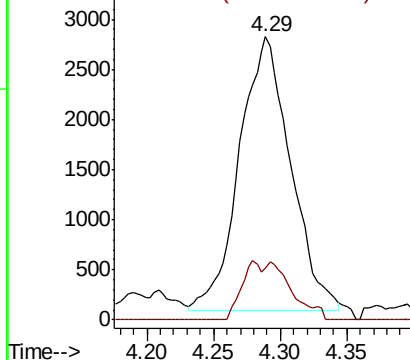


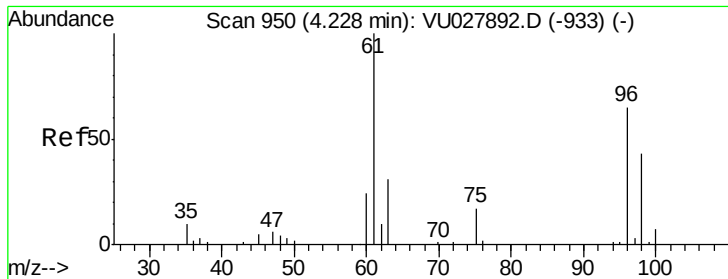
#21
 2-Butanone
 Concen: 3.397 ug/L m
 RT: 4.29 min Scan# 969
 Delta R.T. 0.01 min
 Lab File: VU027897.D
 Acq: 01 Nov 2018 12:24

Tgt Ion:	43	Resp:	7314
Ion	Ratio	Lower	Upper
43	100		
72	10.0	10.9	32.9#



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





#22

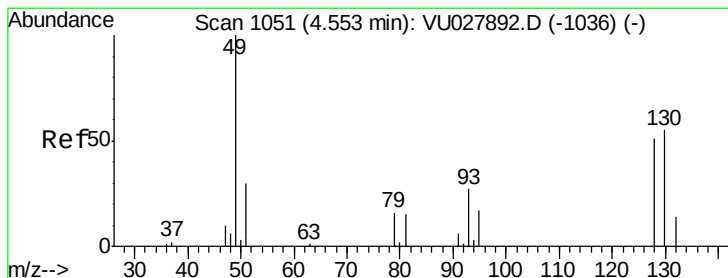
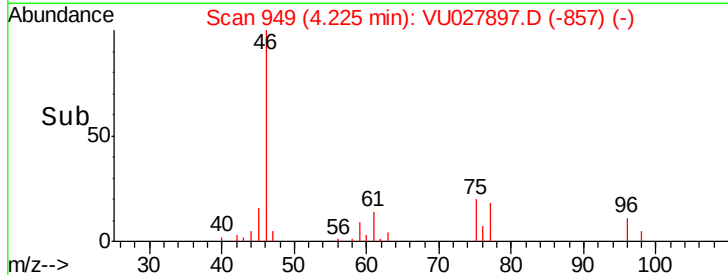
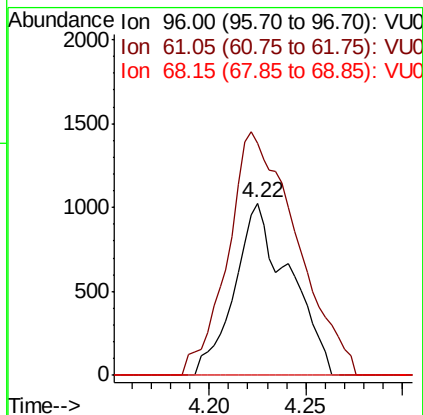
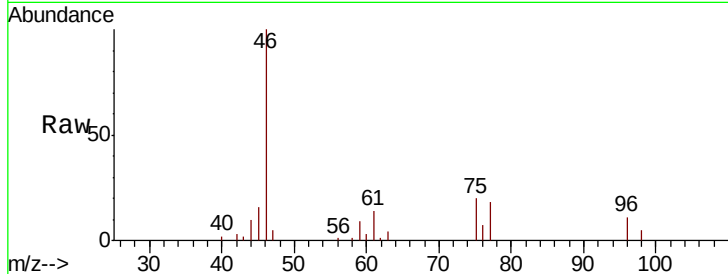
cis-1,2-Dichloroethene
Concen: 0.316 ug/L
RT: 4.22 min Scan# 949
Delta R.T. -0.00 min
Lab File: VU027897.D
Acq: 01 Nov 2018 12:24

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.9	104.0	193.2
68	0.0	0.0	0.0

Manual Integrations
APPROVED

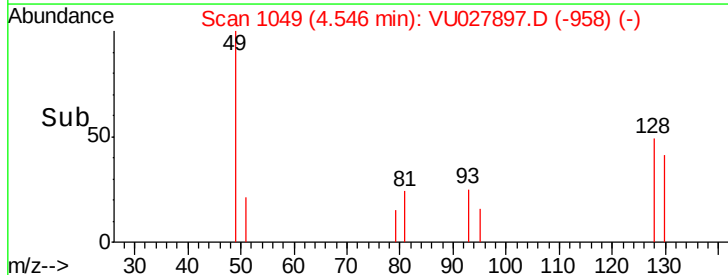
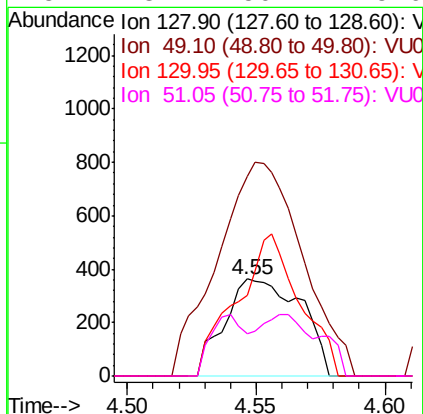
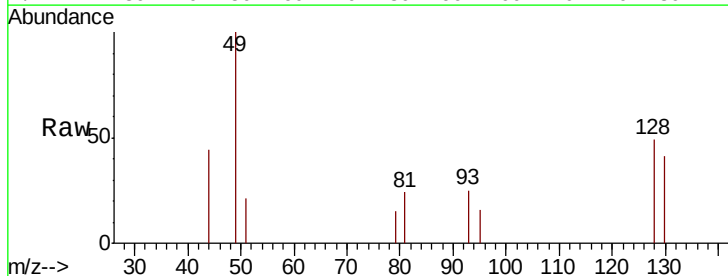
MMDadoda
11/5/2018 4:10:24 PM

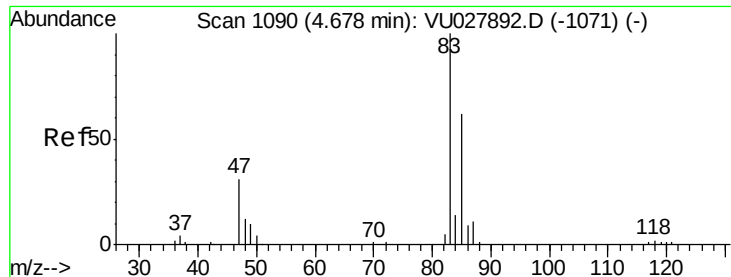


#23

Bromochloromethane
Concen: 0.281 ug/L
RT: 4.55 min Scan# 1049
Delta R.T. -0.01 min
Lab File: VU027897.D
Acq: 01 Nov 2018 12:24

Tgt Ion	Ratio	Lower	Upper
128	100		
49	206.0	142.0	263.8
130	83.5	86.1	159.9#
51	43.4	50.4	75.6#





#25

Chloroform

Concen: 0.746 ug/L

RT: 4.68 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VU027897.D

Acq: 01 Nov 2018 12:24

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 83 Resp: 8889

Ion Ratio Lower Upper

83 100

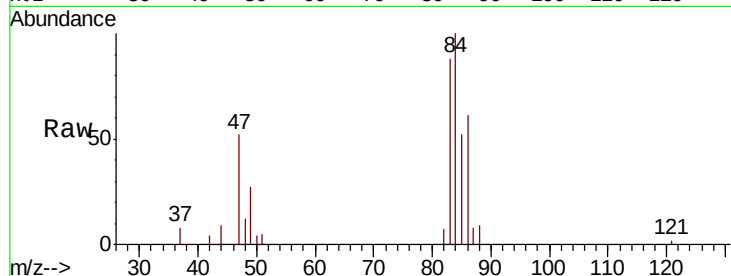
85 58.8 44.0 81.8

Manual Integrations

APPROVED

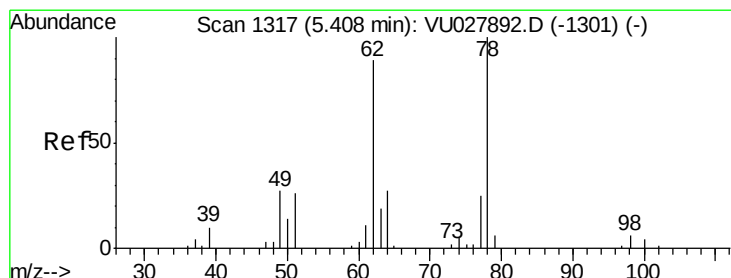
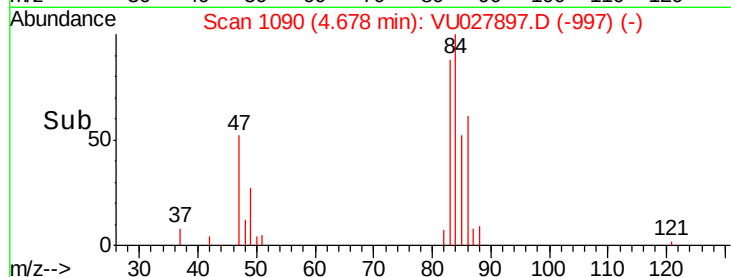
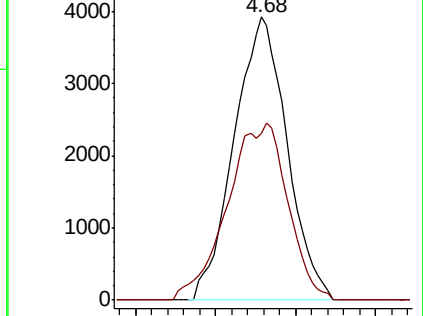
MMDadoda

11/5/2018 4:10:24 PM



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0



#27

1,2-Dichloroethane

Concen: 0.379 ug/L

RT: 5.41 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VU027897.D

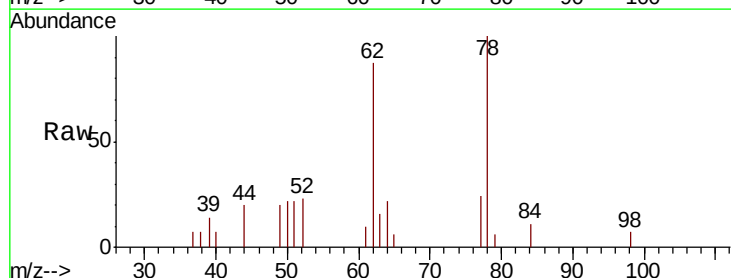
Acq: 01 Nov 2018 12:24

Tgt Ion: 62 Resp: 3147

Ion Ratio Lower Upper

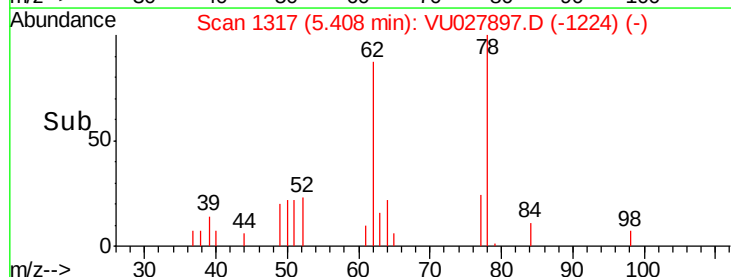
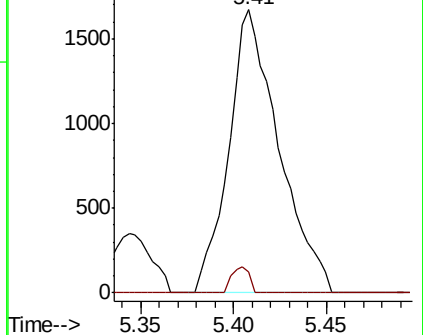
62 100

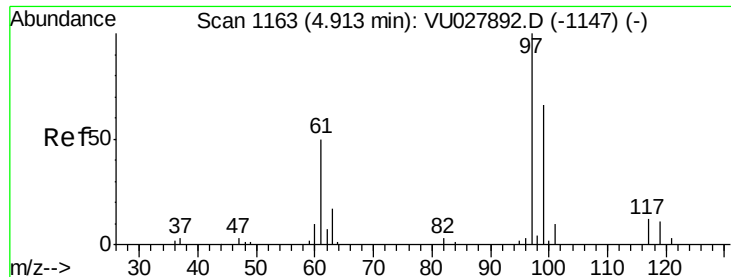
98 7.6 6.3 9.5



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.05 (97.75 to 98.75): VU0





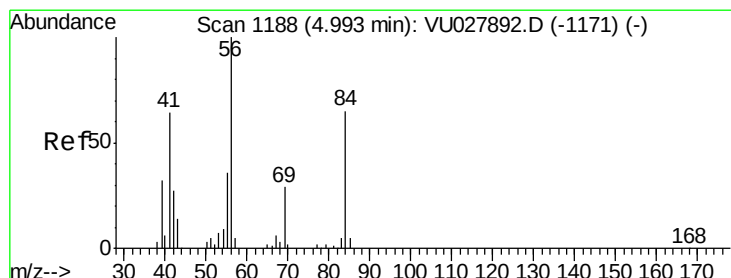
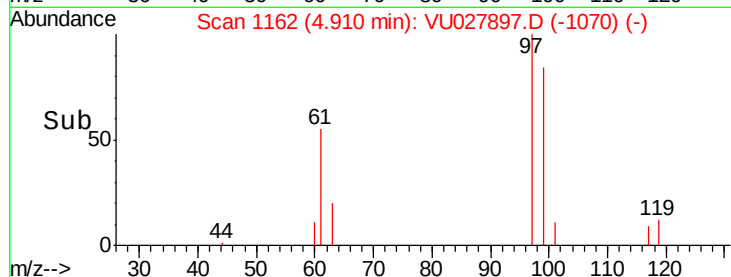
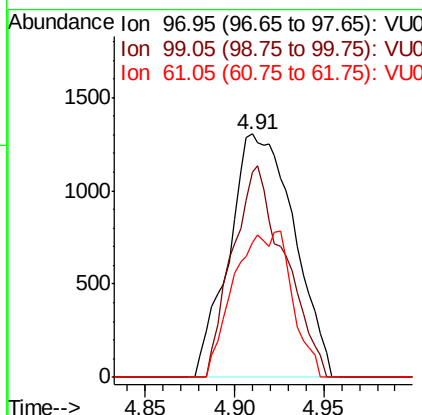
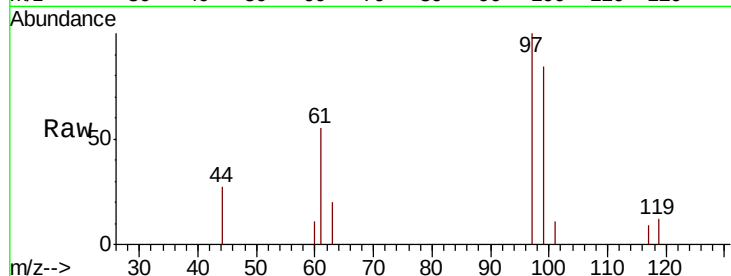
#29
 1,1,1-Trichloroethane
 Concen: 0.308 ug/L
 RT: 4.91 min Scan# 1162
 Delta R.T. -0.00 min
 Lab File: VU027897.D
 Acq: 01 Nov 2018 12:24

Instrument :
 MSVOA_U
 ClientSampleID :
 MDL04

Tot Ion	Ratio	Lower	Upper
97	100		
99	70.2	50.6	76.0
61	33.9	35.8	53.6

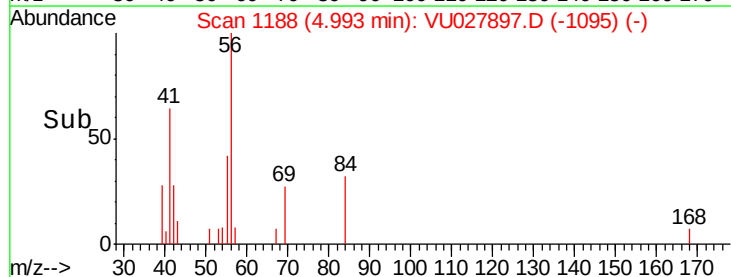
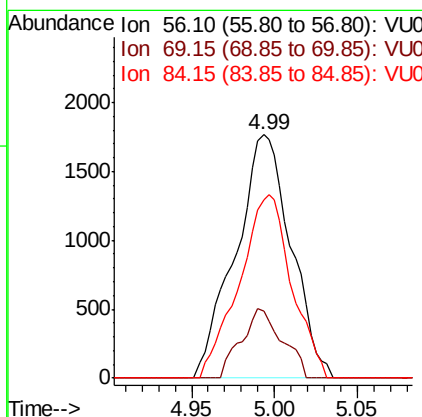
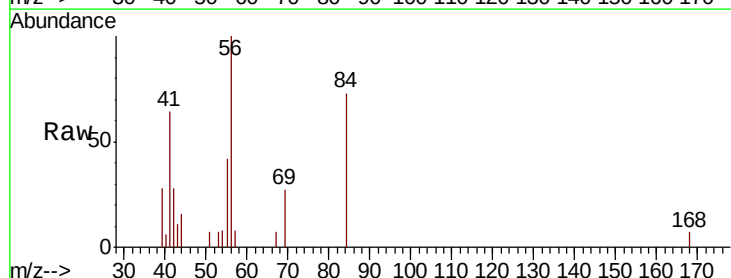
Manual Integrations
 APPROVED

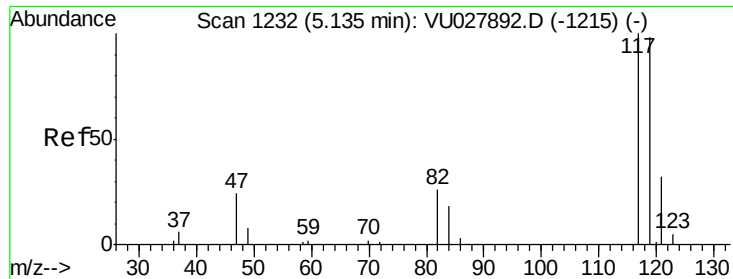
MMDadoda
 11/5/2018 4:10:24 PM



#30
 Cyclohexane
 Concen: 0.325 ug/L
 RT: 4.99 min Scan# 1188
 Delta R.T. 0.00 min
 Lab File: VU027897.D
 Acq: 01 Nov 2018 12:24

Tgt Ion	Ratio	Lower	Upper
56	100		
69	20.9	22.7	34.1
84	71.0	58.1	87.1





#31

Carbon tetrachloride

Concen: 0.330 ug/L

RT: 5.14 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU027897.D

Acq: 01 Nov 2018 12:24

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion:117 Resp: 3044

Ion Ratio Lower Upper

117 100

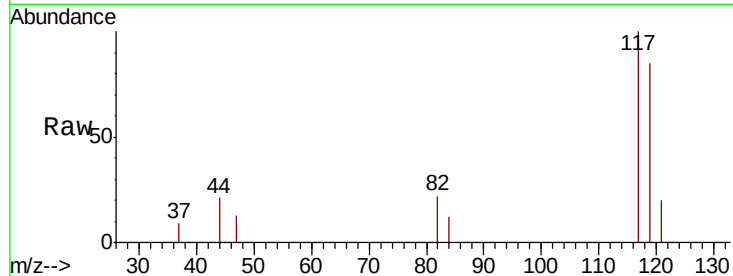
119 88.4 77.1 115.7

Manual Integrations

APPROVED

MMDadoda

11/5/2018 4:10:24 PM



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.14

1500

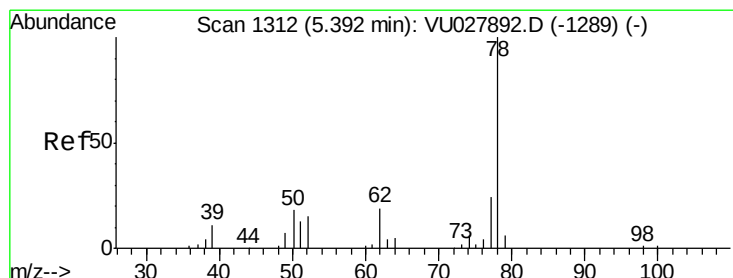
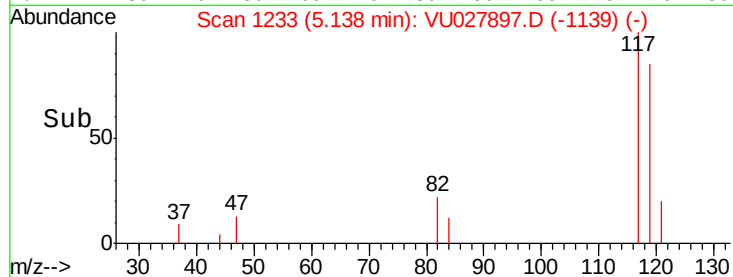
1000

500

0

Time-->

5.10 5.15 5.20



#33

Benzene

Concen: 0.298 ug/L

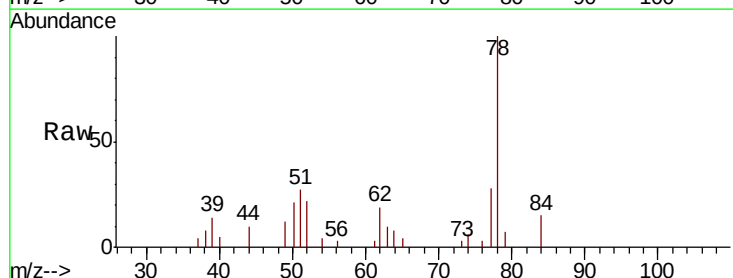
RT: 5.40 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU027897.D

Acq: 01 Nov 2018 12:24

Tgt Ion: 78 Resp: 7869



Abundance Ion 78.10 (77.80 to 78.80): VU0

4000

3000

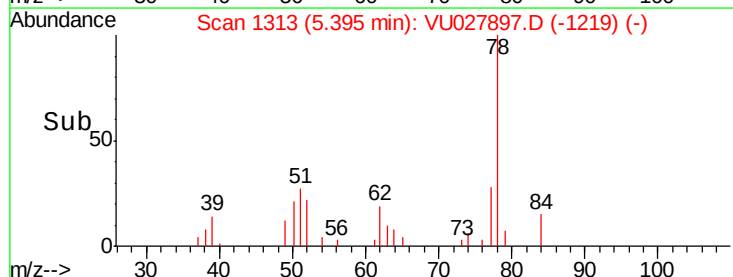
2000

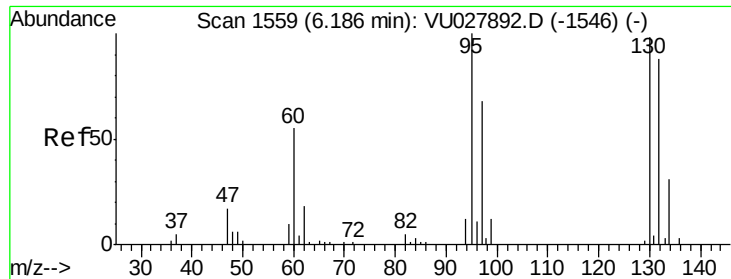
1000

0

Time-->

5.35 5.40 5.45





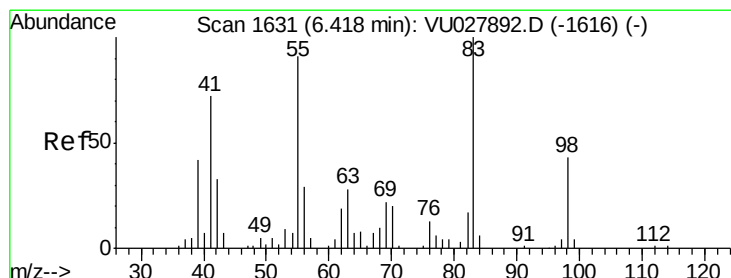
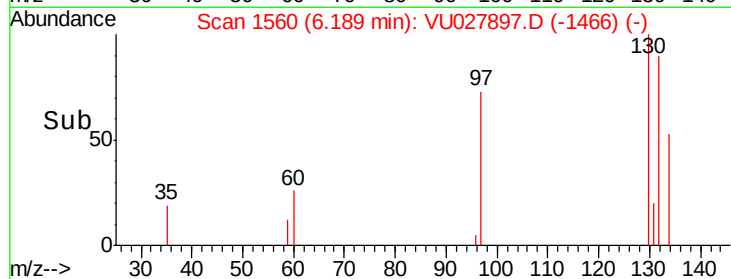
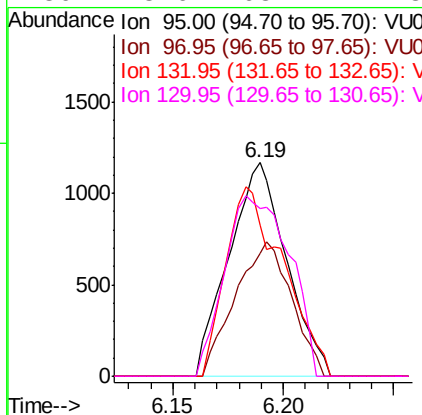
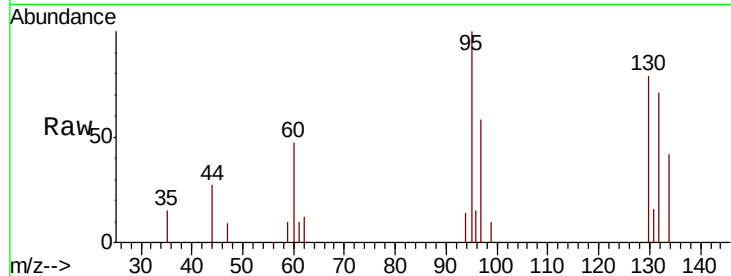
#34
 Trichloroethene
 Concen: 0.307 ug/L
 RT: 6.19 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: VU027897.D
 Acq: 01 Nov 2018 12:24

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
95	100		
97	57.6	44.0	81.6
132	71.0	63.3	117.5
130	78.6	63.1	117.3

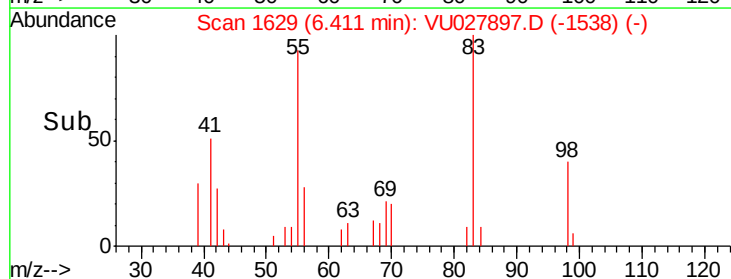
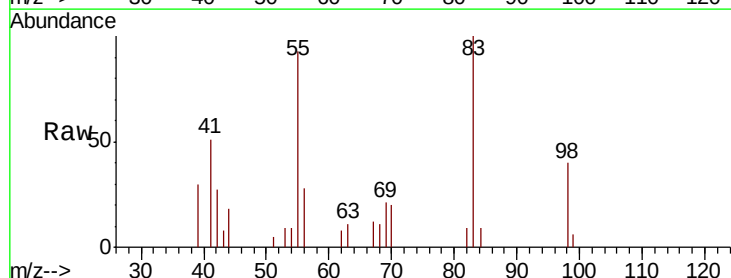
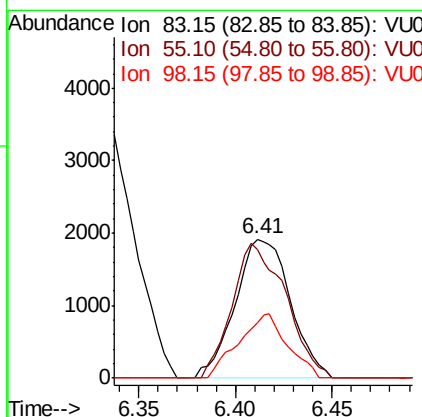
Manual Integrations
 APPROVED

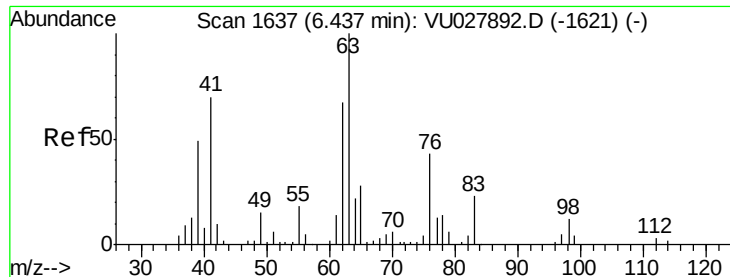
MMDadoda
 11/5/2018 4:10:24 PM



#35
 Methylcyclohexane
 Concen: 0.325 ug/L
 RT: 6.41 min Scan# 1629
 Delta R.T. -0.01 min
 Lab File: VU027897.D
 Acq: 01 Nov 2018 12:24

Tgt Ion	Ratio	Lower	Upper
83	100		
55	94.0	73.4	110.0
98	40.9	35.3	52.9





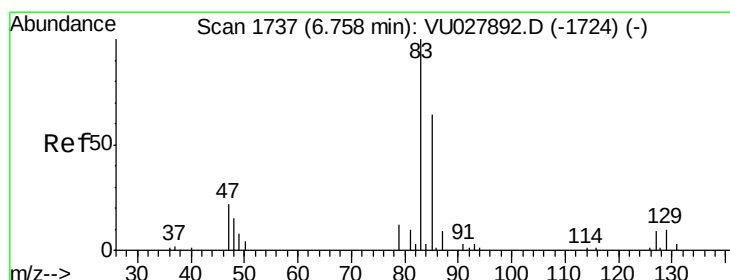
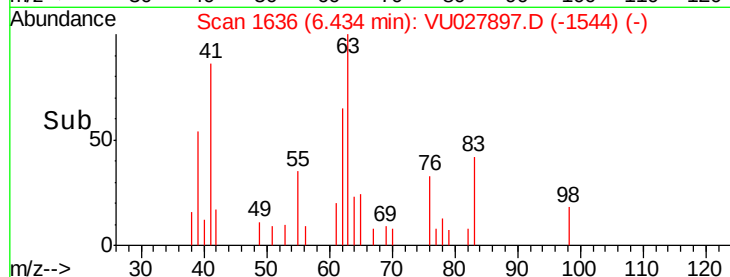
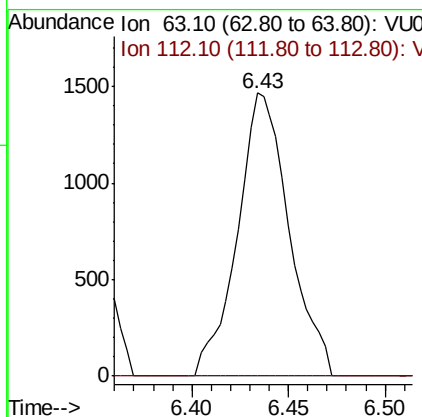
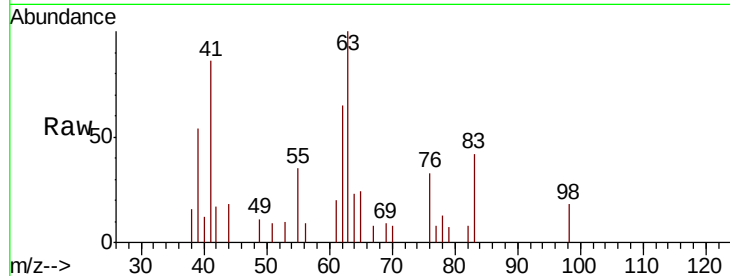
#37
 1,2-Dichloropropane
 Concen: 0.362 ug/L
 RT: 6.43 min Scan# 1636
 Delta R.T. -0.00 min
 Lab File: VU027897.D
 Acq: 01 Nov 2018 12:24

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tot Ion: 63 Resp: 2726
 Ion Ratio Lower Upper
 63 100
 112 0.0 2.6 3.8#

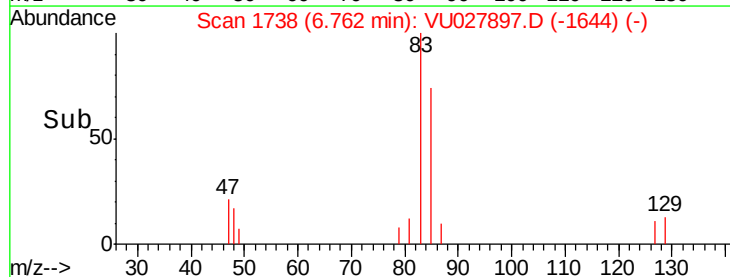
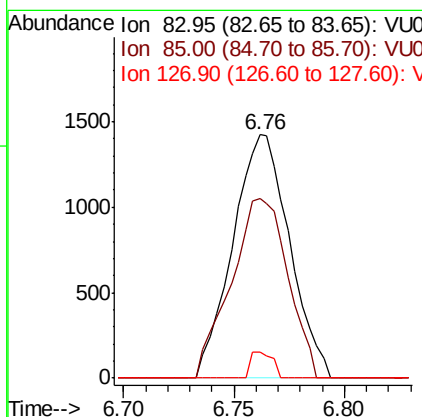
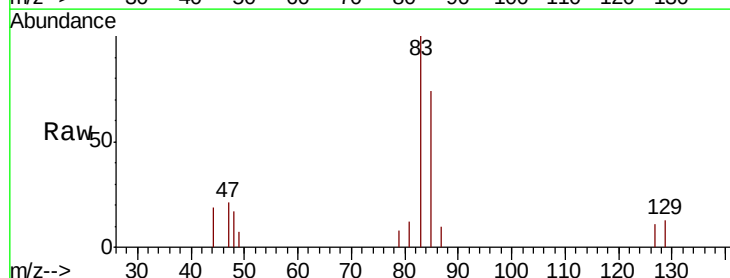
Manual Integrations
 APPROVED

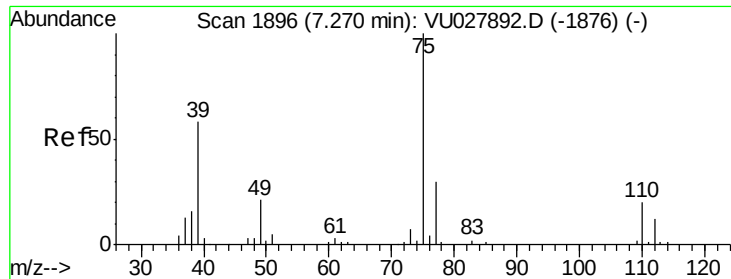
MMDadoda
 11/5/2018 4:10:24 PM



#38
 Bromodichloromethane
 Concen: 0.289 ug/L
 RT: 6.76 min Scan# 1738
 Delta R.T. 0.00 min
 Lab File: VU027897.D
 Acq: 01 Nov 2018 12:24

Tgt Ion: 83 Resp: 2539
 Ion Ratio Lower Upper
 83 100
 85 73.7 43.8 81.4
 127 10.7 6.4 9.6#





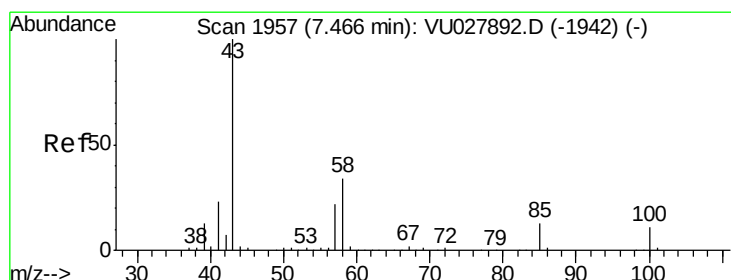
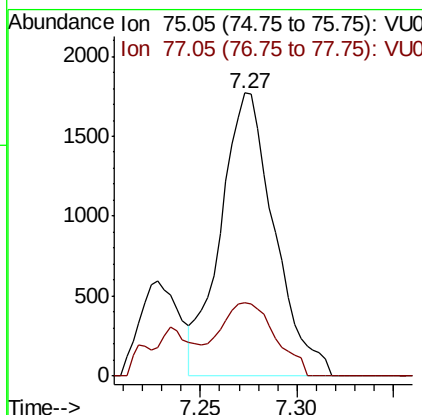
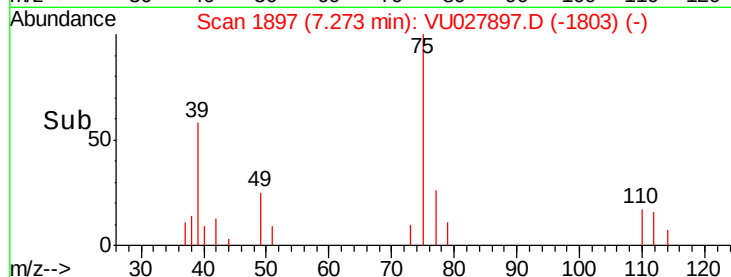
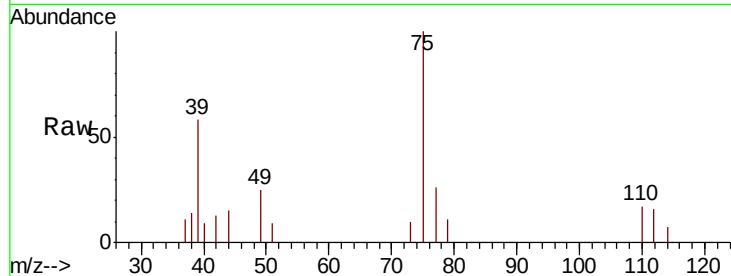
#39
 cis-1,3-Dichloropropene
 Concen: 0.318 ug/L
 RT: 7.27 min Scan# 1897
 Delta R.T. 0.00 min
 Lab File: VU027897.D
 Acq: 01 Nov 2018 12:24

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion: 75 Resp: 3425
 Ion Ratio Lower Upper
 75 100
 77 26.2 22.2 41.2

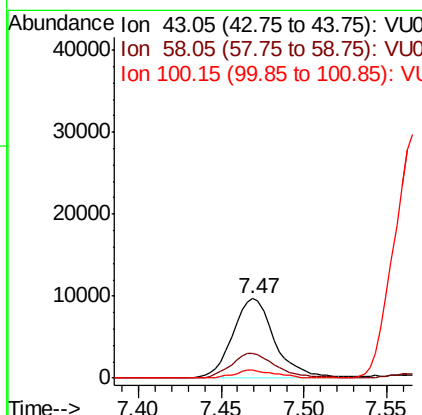
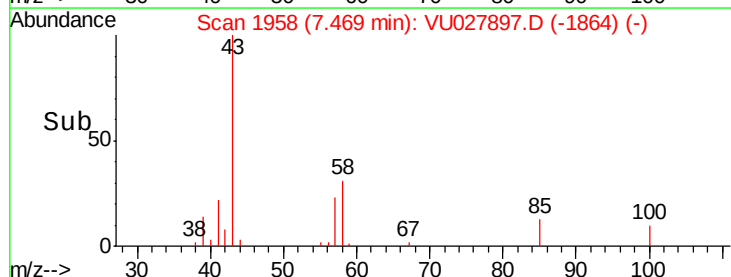
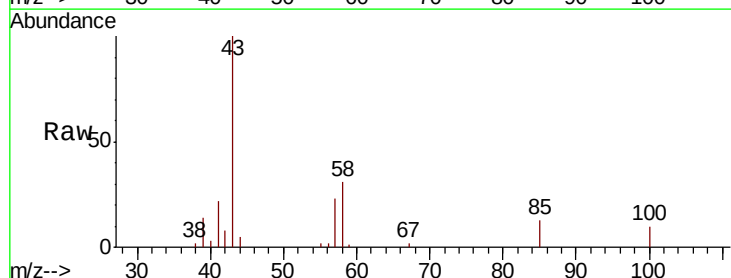
Manual Integrations
 APPROVED

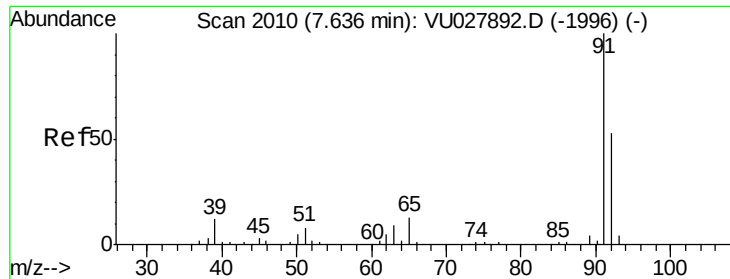
MMDadoda
 11/5/2018 4:10:24 PM



#40
 4-Methyl-2-pentanone
 Concen: 3.205 ug/L
 RT: 7.47 min Scan# 1958
 Delta R.T. 0.00 min
 Lab File: VU027897.D
 Acq: 01 Nov 2018 12:24

Tgt Ion: 43 Resp: 17029
 Ion Ratio Lower Upper
 43 100
 58 33.6 28.5 42.7
 100 9.7 8.8 13.2





#42

Toluene

Concen: 0.309 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU027897.D

Acq: 01 Nov 2018 12:24

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 91 Resp: 8549

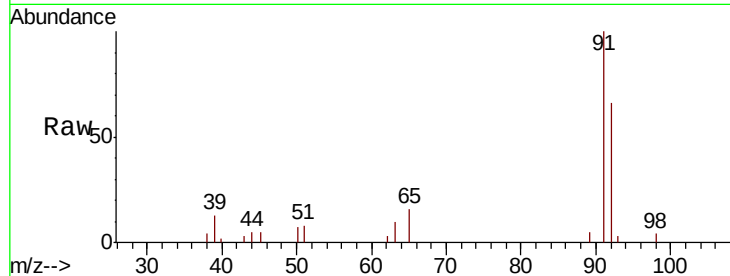
Ion Ratio Lower Upper

91 100

92 65.6 40.3 74.9

Manual Integrations
APPROVED

MMDadoda
11/5/2018 4:10:24 PM



Abundance Ion 91.15 (90.85 to 91.85): VU027897.D (-1917) (-)

Ion 92.15 (91.85 to 92.85): VU027897.D (-1917) (-)

7.64

5000

4000

3000

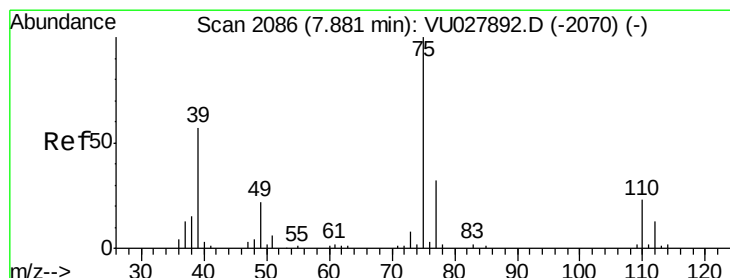
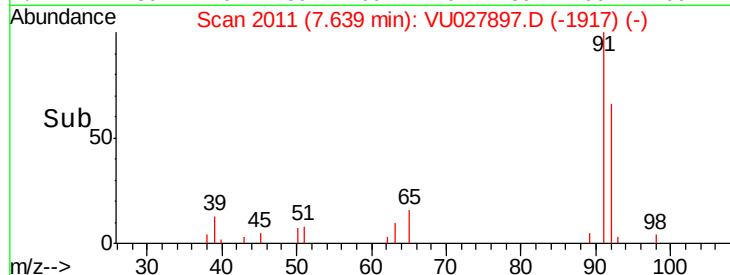
2000

1000

0

7.60 7.65 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.312 ug/L m

RT: 7.89 min Scan# 2088

Delta R.T. 0.01 min

Lab File: VU027897.D

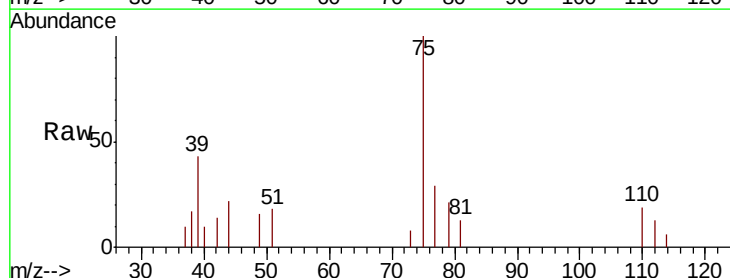
Acq: 01 Nov 2018 12:24

Tgt Ion: 75 Resp: 2890

Ion Ratio Lower Upper

75 100

77 28.8 20.5 38.1



Abundance Ion 75.05 (74.75 to 75.75): VU027897.D (-1993) (-)

Ion 77.05 (76.75 to 77.75): VU027897.D (-1993) (-)

7.89

1500

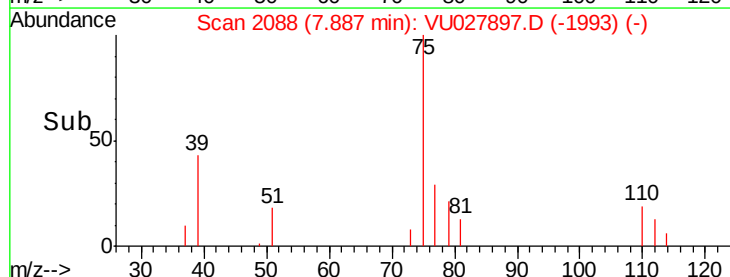
1000

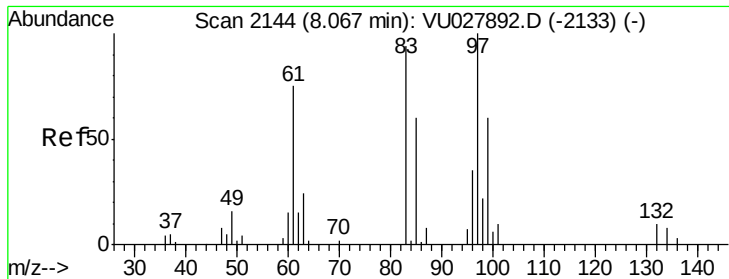
500

0

7.85 7.90

Time-->





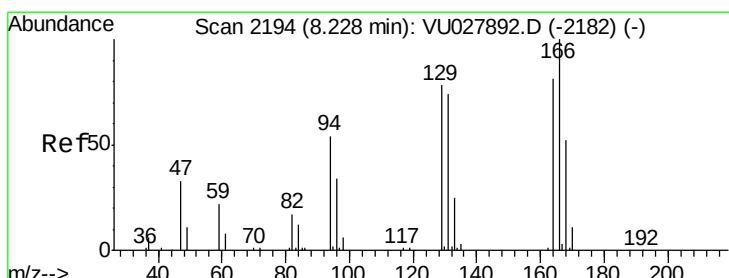
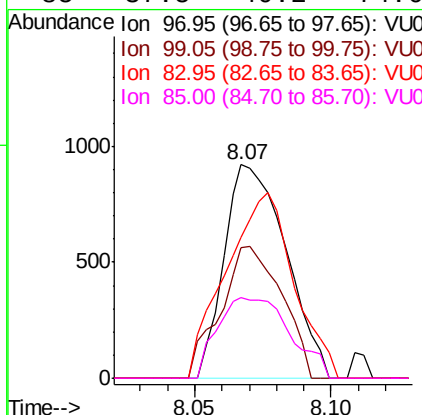
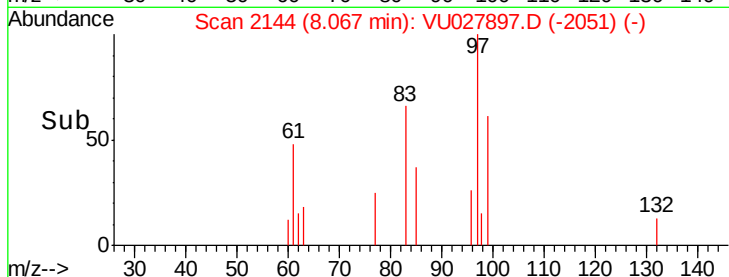
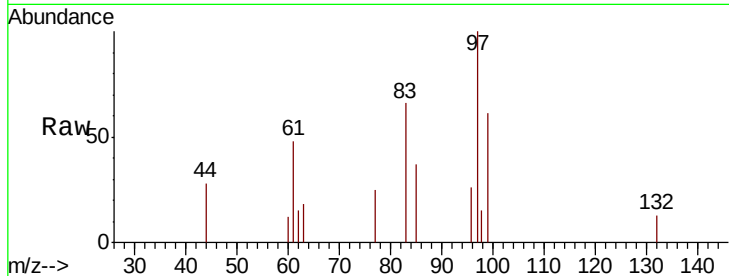
#45
1,1,2-Trichloroethane
Concen: 0.314 ug/L
RT: 8.07 min Scan# 2144
Delta R.T. 0.00 min
Lab File: VU027897.D
Acq: 01 Nov 2018 12:24

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
97	100		
99	61.0	42.9	79.7
83	65.9	62.2	115.6
85	37.5	40.2	74.6

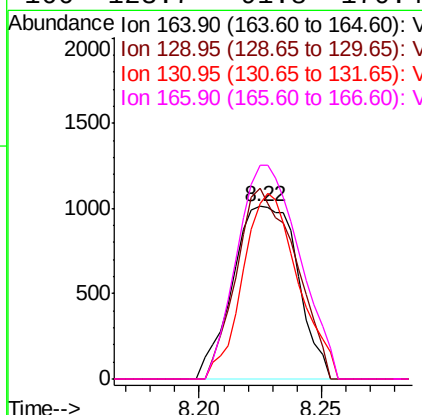
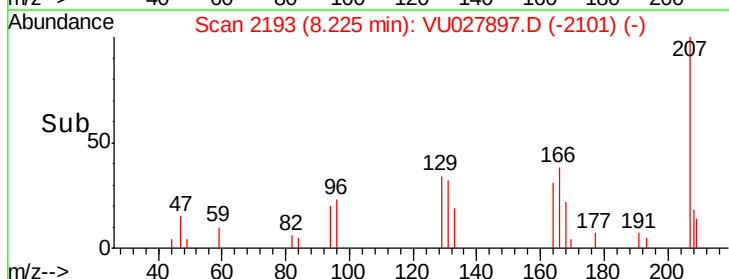
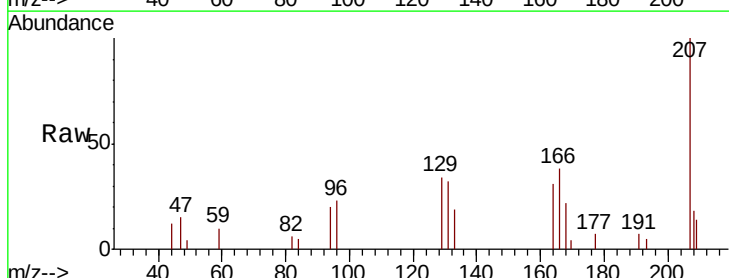
Manual Integrations
APPROVED

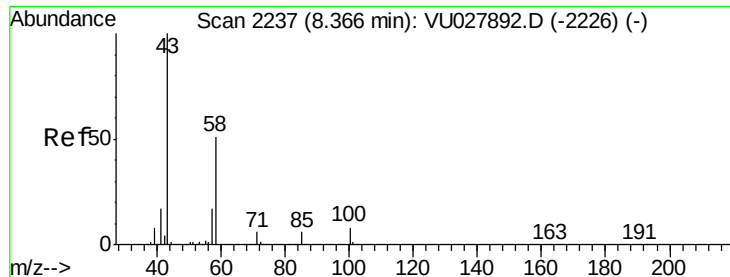
MMDadoda
11/5/2018 4:10:24 PM



#47
Tetrachloroethene
Concen: 0.355 ug/L
RT: 8.22 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VU027897.D
Acq: 01 Nov 2018 12:24

Tgt Ion	Ratio	Lower	Upper
164	100		
129	110.8	64.9	120.5
131	101.8	64.3	119.5
166	123.7	91.8	170.4





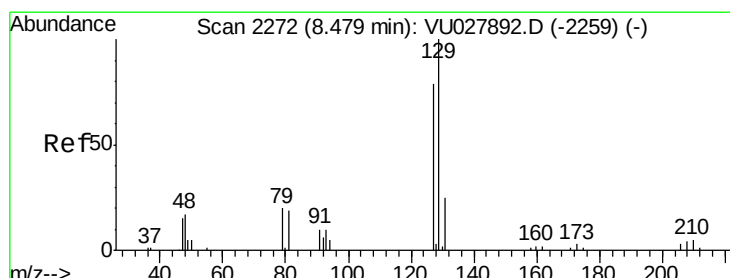
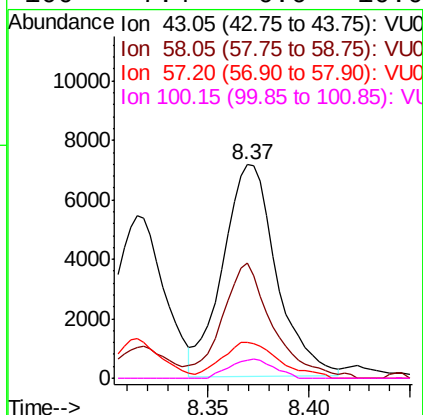
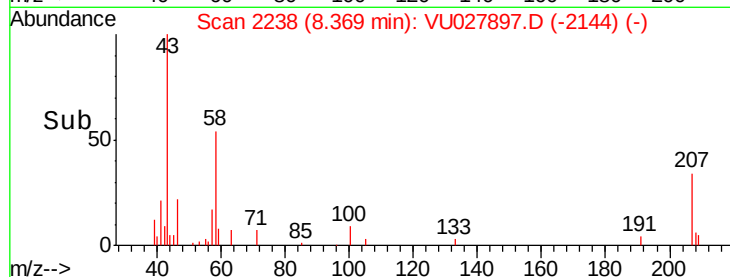
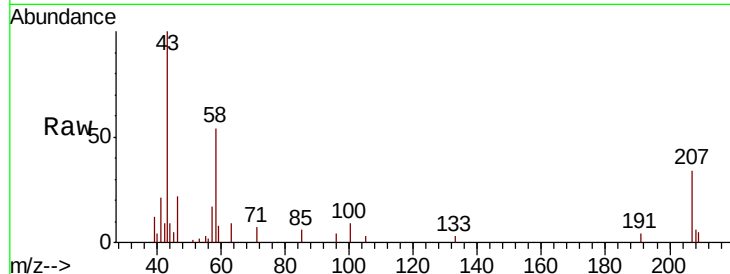
#48
2-Hexanone
Concen: 3.470 ug/L
RT: 8.37 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VU027897.D
Acq: 01 Nov 2018 12:24

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion:	43	Resp:	13294
Ion	Ratio	Lower	Upper
43	100		
58	50.9	38.9	58.3
57	18.1	13.3	19.9
100	7.4	6.6	10.0

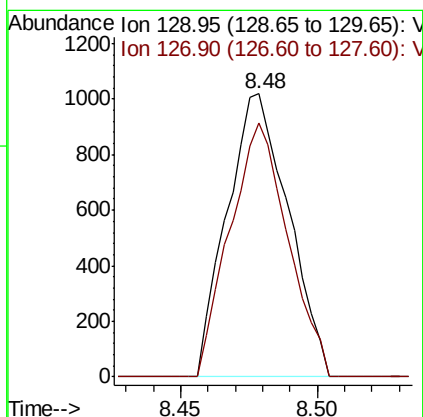
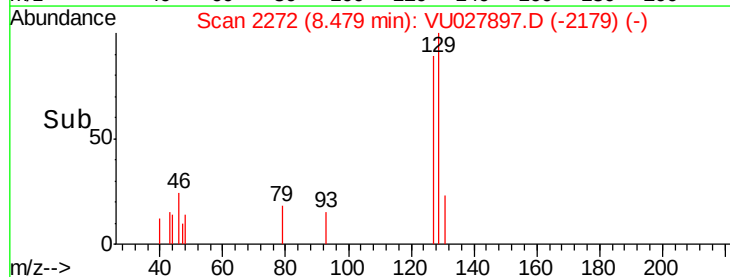
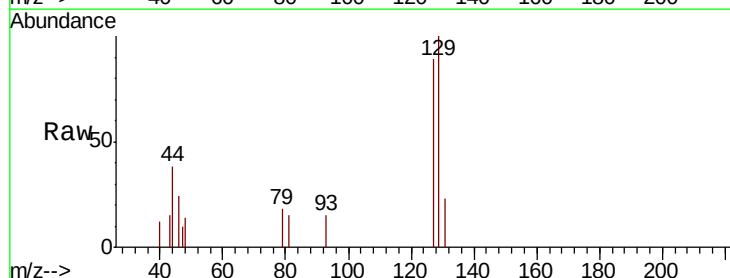
Manual Integrations
APPROVED

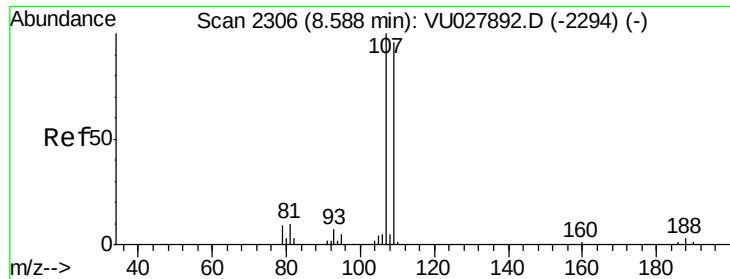
MMDadoda
11/5/2018 4:10:24 PM



#49
Dibromochloromethane
Concen: 0.284 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VU027897.D
Acq: 01 Nov 2018 12:24

Tgt Ion:	129	Resp:	1589
Ion	Ratio	Lower	Upper
129	100		
127	89.5	54.5	101.1





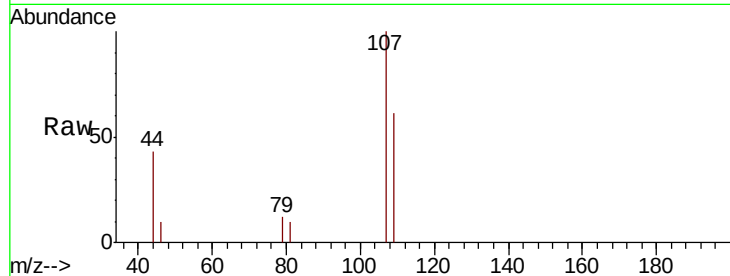
#50
 1,2-Dibromoethane
 Concen: 0.308 ug/L
 RT: 8.59 min Scan# 2307
 Delta R.T. 0.00 min
 Lab File: VU027897.D
 Acq: 01 Nov 2018 12:24

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

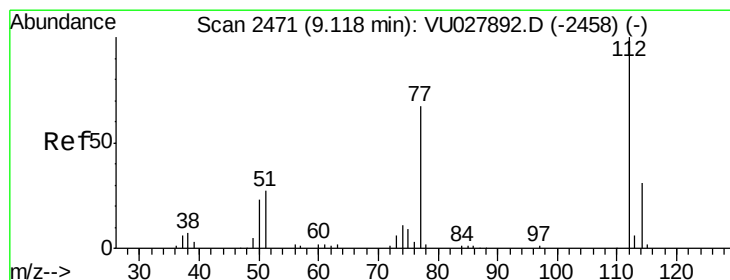
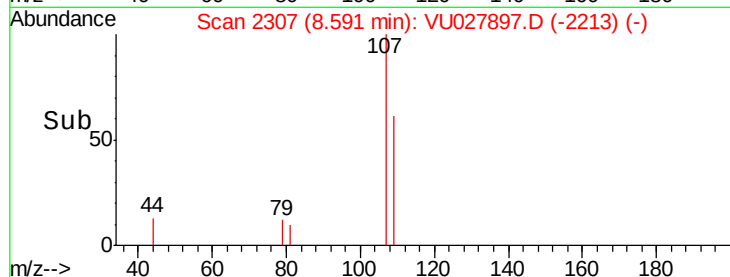
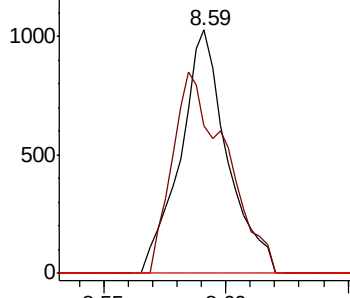
Tot Ion	Ratio	Lower	Upper
107	100		
109	60.6	68.0	126.4#
188	0.0	2.7	4.1#

Manual Integrations
 APPROVED

MMDadoda
 11/5/2018 4:10:24 PM

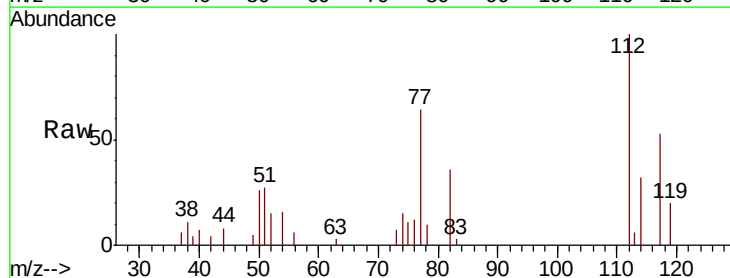


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

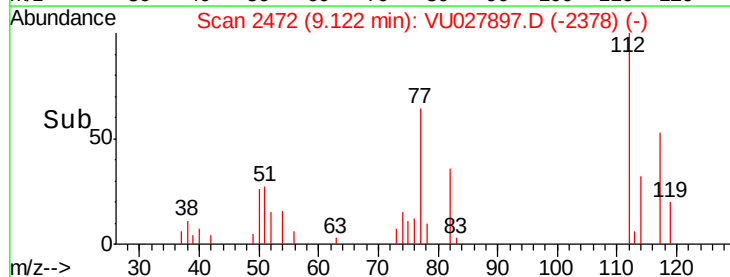
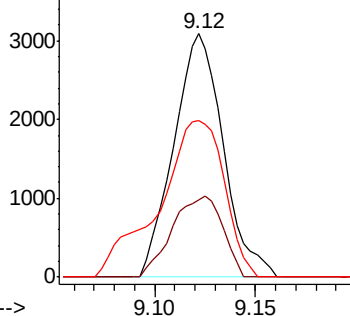


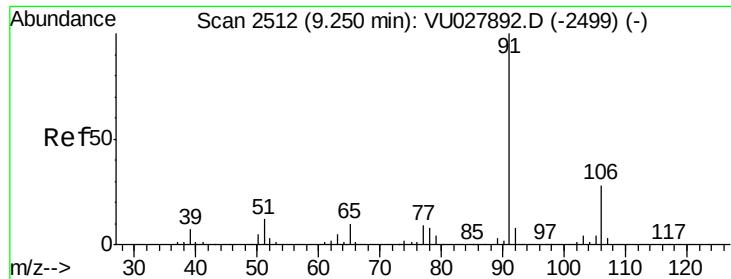
#51
 Chlorobenzene
 Concen: 0.309 ug/L
 RT: 9.12 min Scan# 2472
 Delta R.T. 0.00 min
 Lab File: VU027897.D
 Acq: 01 Nov 2018 12:24

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.0	41.0
77	64.4	54.3	81.5



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: 0.321 ug/L

RT: 9.25 min Scan# 2513

Delta R.T. 0.00 min

Lab File: VU027897.D

Acq: 01 Nov 2018 12:24

Tot Ion: 91 Resp: 10109

Ion Ratio Lower Upper

91 100

106 27.9 21.5 39.9

Instrument :

MSVOA_U

ClientSampled :

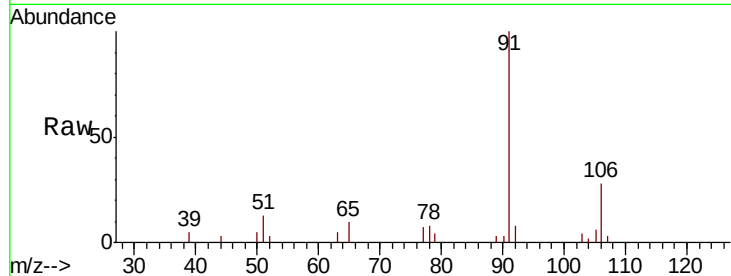
MDL04

Manual Integrations

APPROVED

MMDadoda

11/5/2018 4:10:24 PM



Abundance Ion 91.15 (90.85 to 91.85): VU027897.D (-2499) (-)

Ion 106.15 (105.85 to 106.85): VU027897.D (-2499) (-)

9.25

6000

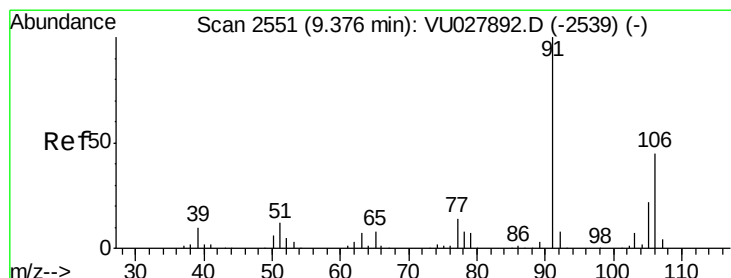
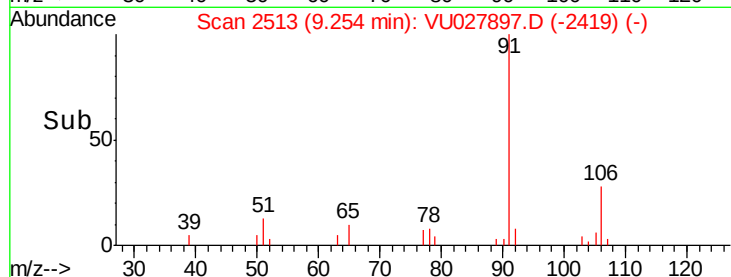
4000

2000

0

9.20 9.25 9.30

Time-->



#53

m,p-xylene

Concen: 0.312 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU027897.D

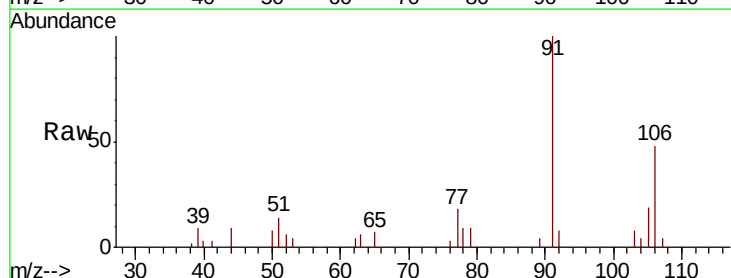
Acq: 01 Nov 2018 12:24

Tgt Ion: 106 Resp: 3568

Ion Ratio Lower Upper

106 100

91 207.6 148.7 276.1



Abundance Ion 106.15 (105.85 to 106.85): VU027897.D (-2539) (-)

Ion 91.15 (90.85 to 91.85): VU027897.D (-2539) (-)

9.38

5000

4000

3000

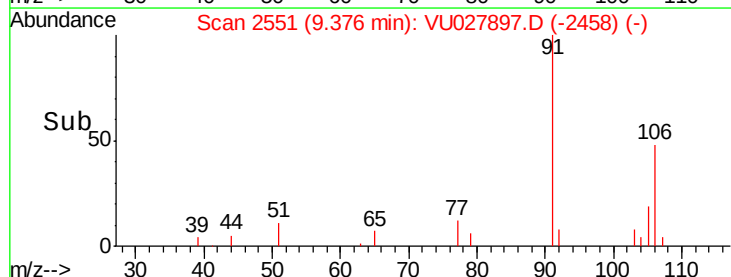
2000

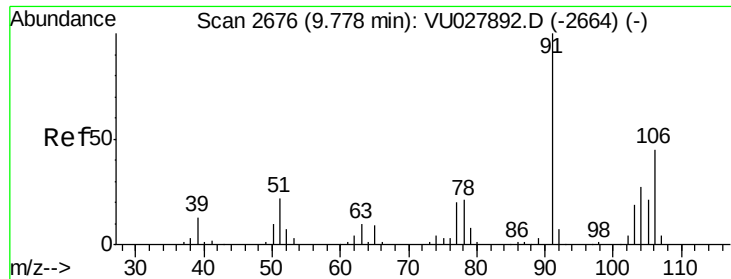
1000

0

9.35 9.40

Time-->





#54

o-xylene

Concen: 0.284 ug/L

RT: 9.78 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VU027897.D

Acq: 01 Nov 2018 12:24

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion:106 Resp: 3187

Ion Ratio Lower Upper

106 100

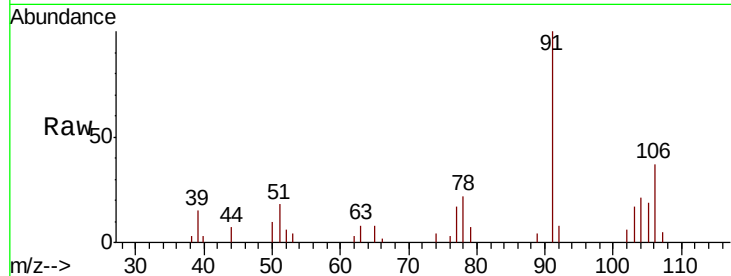
91 267.4 158.3 293.9

Manual Integrations

APPROVED

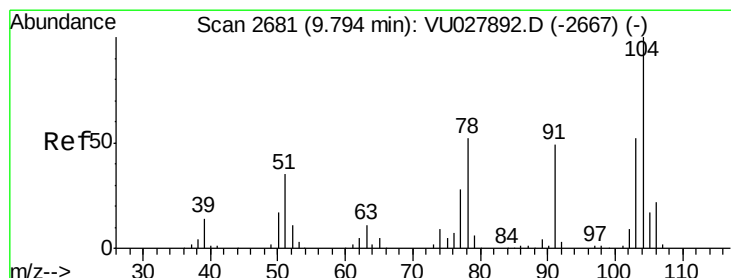
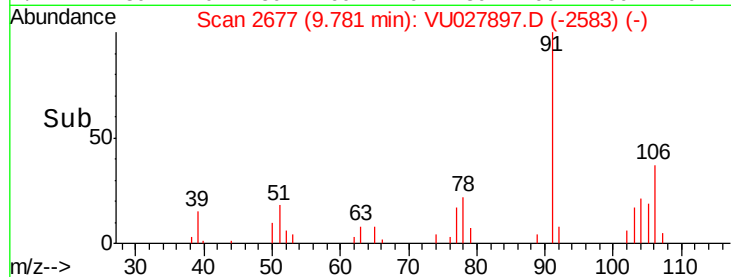
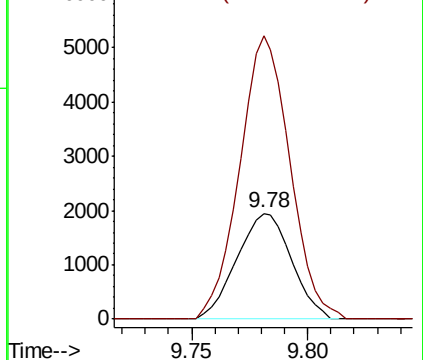
MMDadoda

11/5/2018 4:10:24 PM



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 0.286 ug/L

RT: 9.80 min Scan# 2682

Delta R.T. 0.00 min

Lab File: VU027897.D

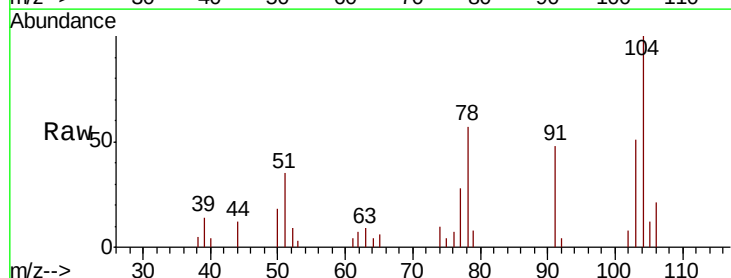
Acq: 01 Nov 2018 12:24

Tgt Ion:104 Resp: 5372

Ion Ratio Lower Upper

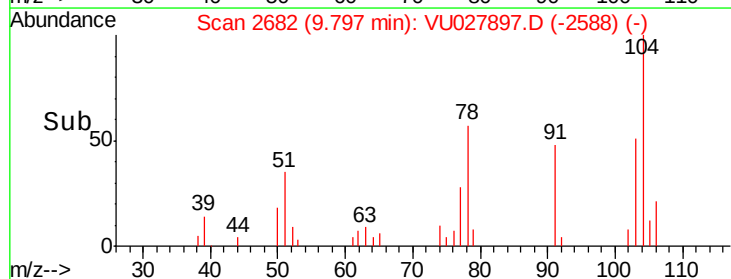
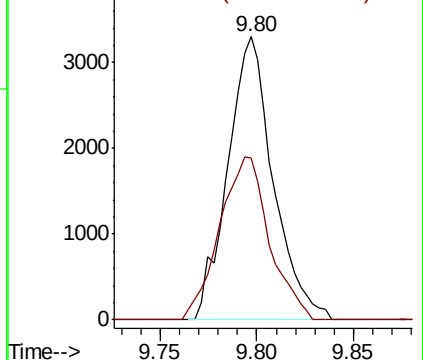
104 100

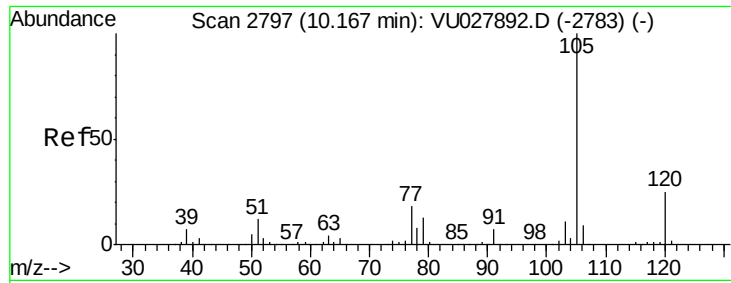
78 57.1 35.6 66.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.312 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU027897.D

Acq: 01 Nov 2018 12:24

Instrument :

MSVOA_U

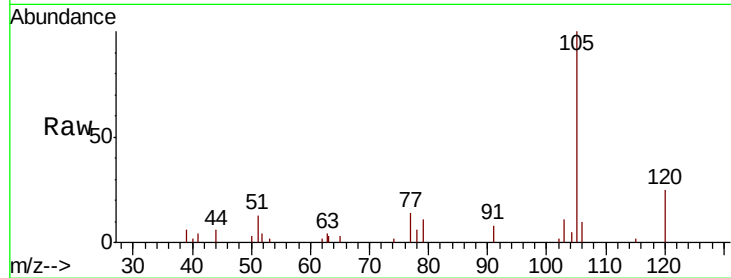
ClientSampleId :

MDL04

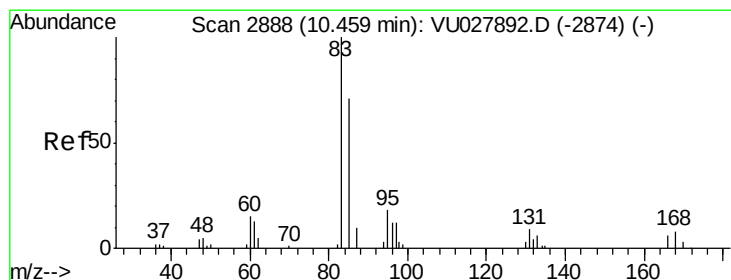
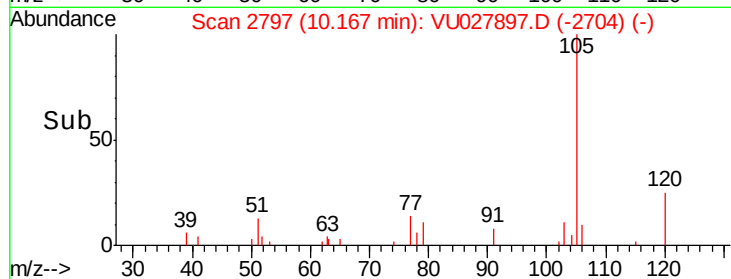
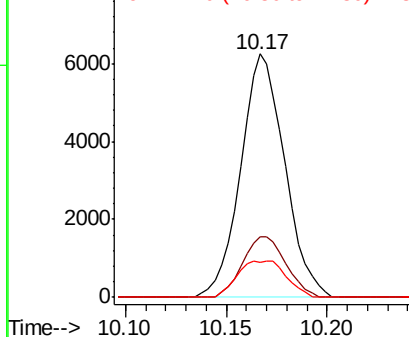
Tot Ion:	105	Resp:	9543
Ion Ratio	Lower	Upper	
105	100		
120	24.4	20.2	30.2
77	16.5	13.4	20.2

Manual Integrations
APPROVED

MMDadoda
11/5/2018 4:10:24 PM



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.10 (119.80 to 120.80): V
Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.327 ug/L

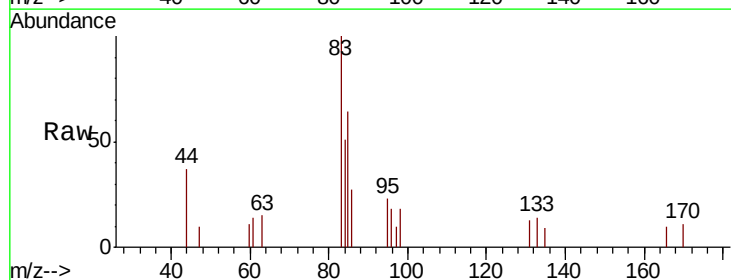
RT: 10.46 min Scan# 2889

Delta R.T. 0.00 min

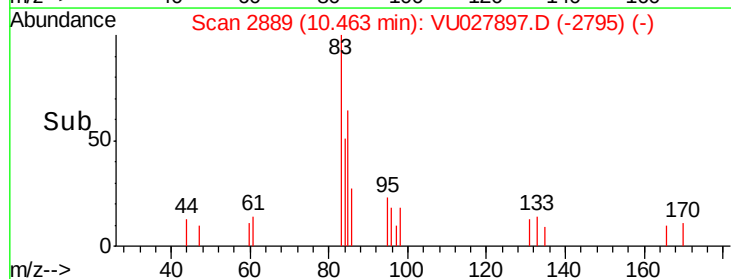
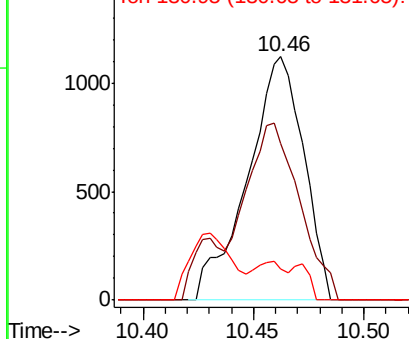
Lab File: VU027897.D

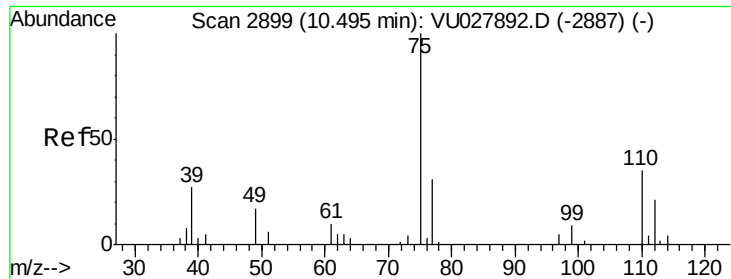
Acq: 01 Nov 2018 12:24

Tgt Ion:	83	Resp:	1972
Ion Ratio	Lower	Upper	
83	100		
85	64.3	44.4	82.4
131	13.0	6.8	10.2#



Abundance Ion 82.95 (82.65 to 83.65): VU0
Ion 85.00 (84.70 to 85.70): VU0
Ion 130.95 (130.65 to 131.65): V





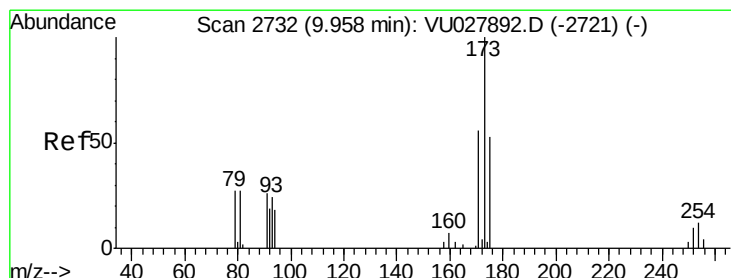
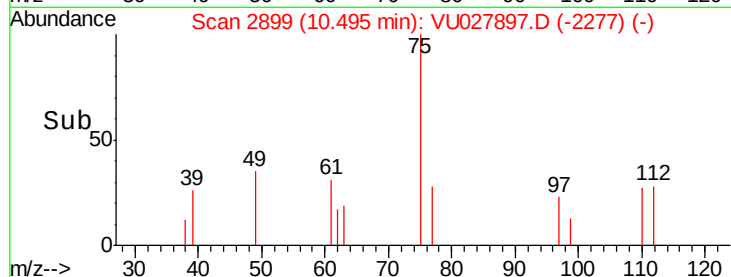
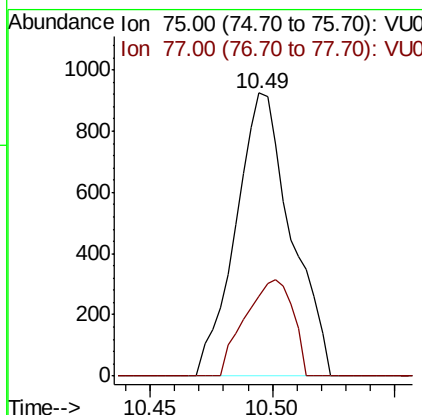
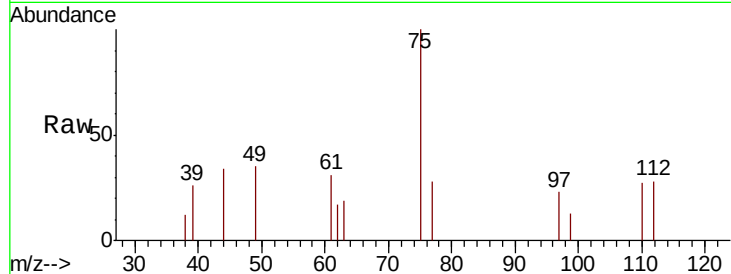
#59
 1,2,3-Trichloropropane
 Concen: 0.318 ug/L
 RT: 10.49 min Scan# 2899
 Delta R.T. 0.00 min
 Lab File: VU027897.D
 Acq: 01 Nov 2018 12:24

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tot Ion: 75 Resp: 1452
 Ion Ratio Lower Upper
 75 100
 77 29.5 25.8 38.6

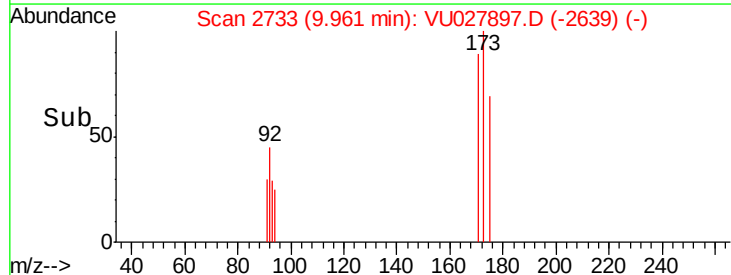
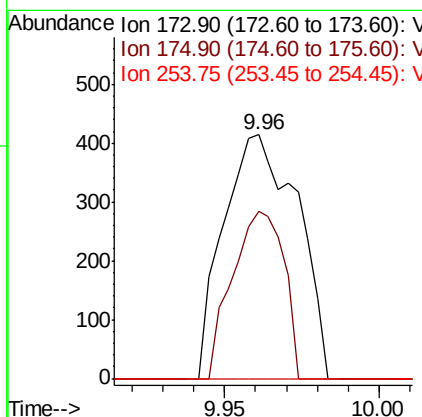
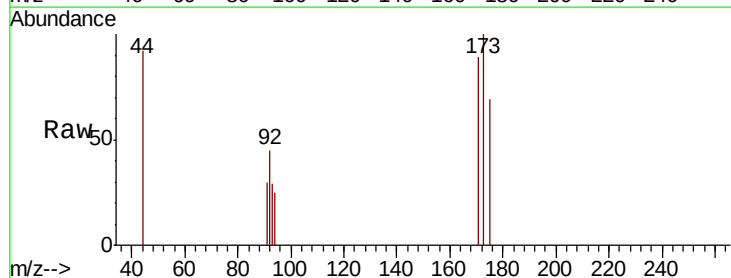
Manual Integrations
 APPROVED

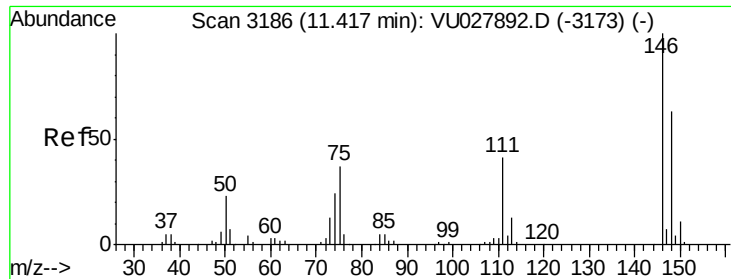
MMDadoda
 11/5/2018 4:10:24 PM



#61
 Bromoform
 Concen: 0.228 ug/L
 RT: 9.96 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VU027897.D
 Acq: 01 Nov 2018 12:24

Tgt Ion: 173 Resp: 691
 Ion Ratio Lower Upper
 173 100
 175 47.6 38.3 57.5
 254 0.0 7.8 11.6#





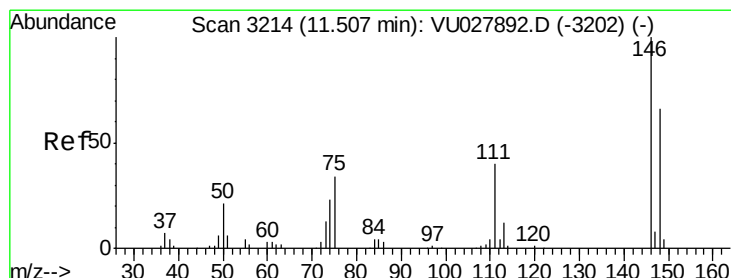
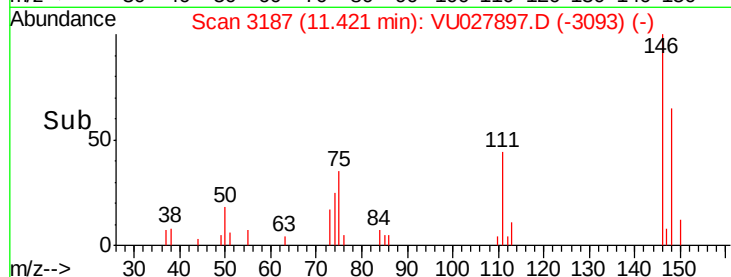
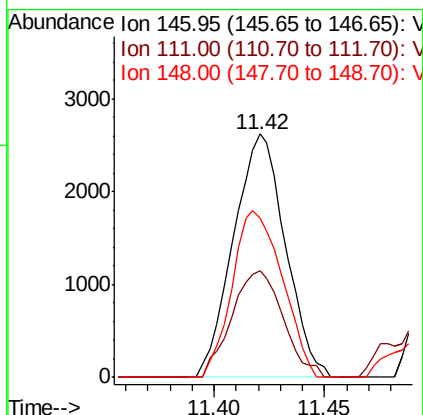
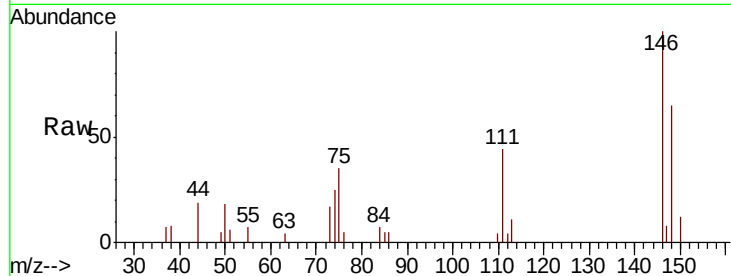
#62
 1,3-Dichlorobenzene
 Concen: 0.322 ug/L
 RT: 11.42 min Scan# 3187
 Delta R.T. 0.00 min
 Lab File: VU027897.D
 Acq: 01 Nov 2018 12:24

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.6	27.4	51.0
148	65.3	42.6	79.0

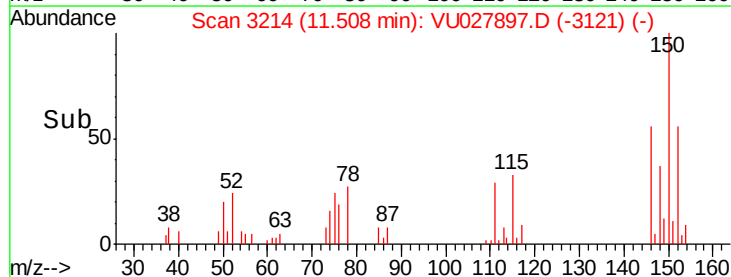
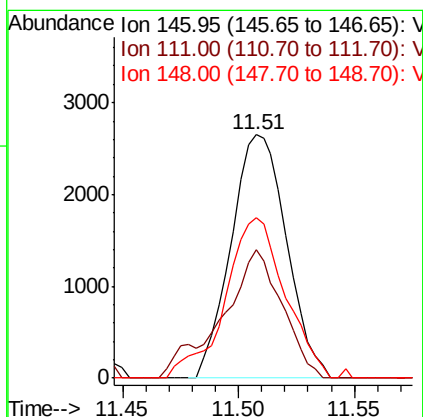
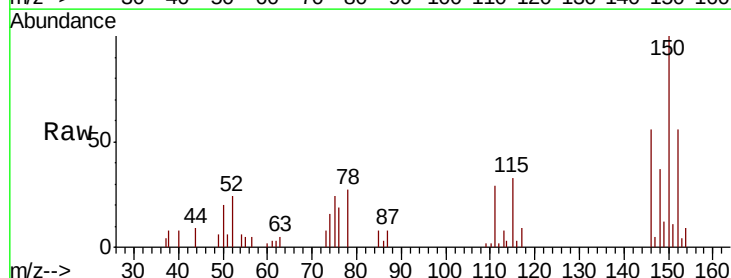
Manual Integrations
 APPROVED

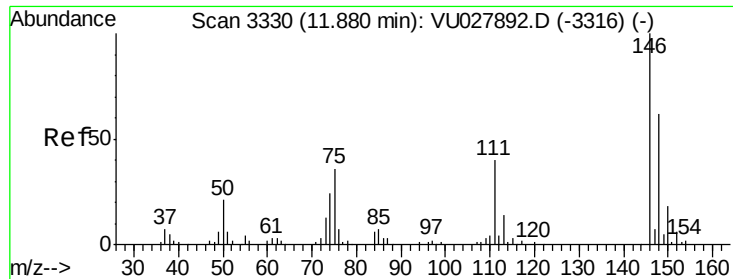
MMDadoda
 11/5/2018 4:10:24 PM



#63
 1,4-Dichlorobenzene
 Concen: 0.332 ug/L
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU027897.D
 Acq: 01 Nov 2018 12:24

Tgt Ion	Ratio	Lower	Upper
146	100		
111	52.7	27.4	51.0#
148	65.8	43.1	80.1





#65

1,2-Dichlorobenzene

Concen: 0.322 ug/L

RT: 11.88 min Scan# 3330

Delta R.T. 0.00 min

Lab File: VU027897.D

Acq: 01 Nov 2018 12:24

Instrument :

MSVOA_U

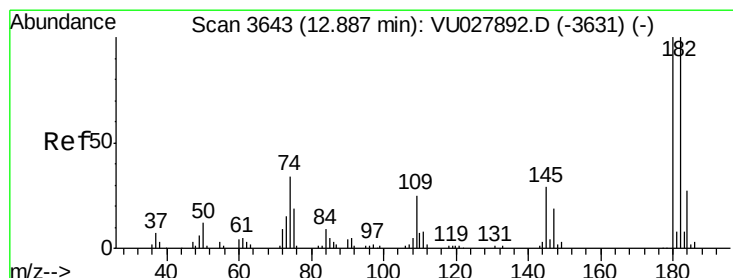
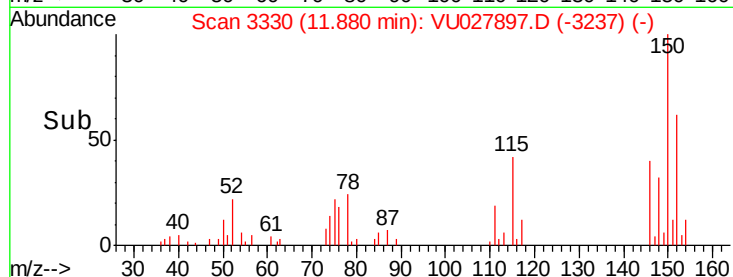
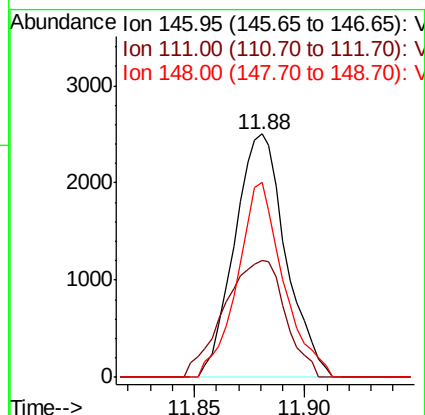
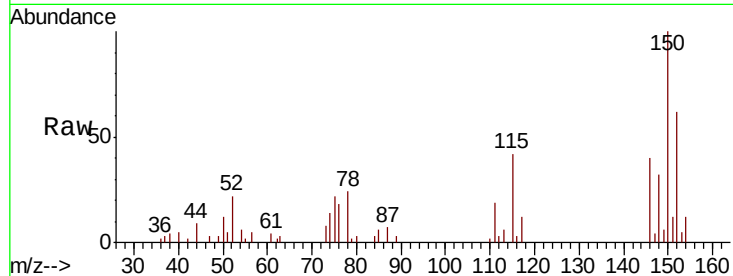
ClientSampled :

MDL04

Tot Ion:	146	Resp:	4037
Ion Ratio	Lower	Upper	
146	100		
111	48.1	33.0	49.4
148	79.8	49.2	73.8#

Manual Integrations
APPROVED

MMDadoda
11/5/2018 4:10:24 PM



#67

1,3,5-Trichlorobenzene

Concen: 0.312 ug/L

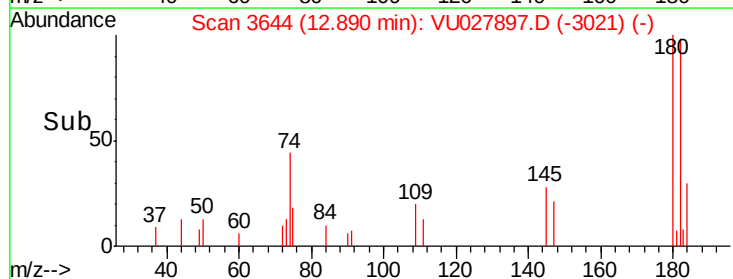
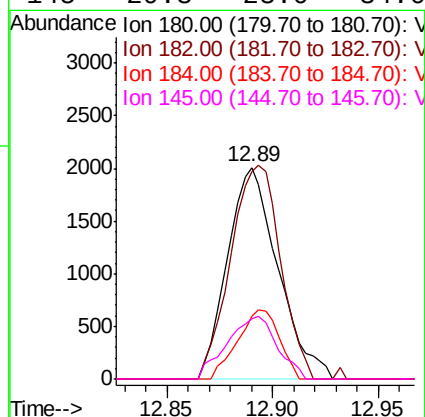
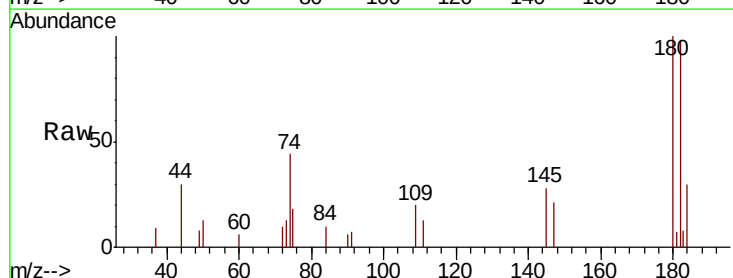
RT: 12.89 min Scan# 3644

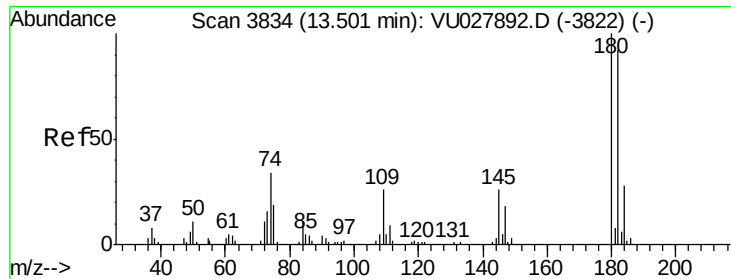
Delta R.T. 0.00 min

Lab File: VU027897.D

Acq: 01 Nov 2018 12:24

Tgt Ion:	180	Resp:	3327
Ion Ratio	Lower	Upper	
180	100		
182	99.8	77.3	115.9
184	27.0	24.6	37.0
145	29.3	23.0	34.6





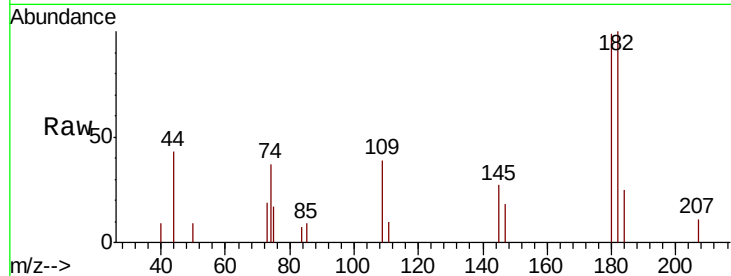
#68
 1,2,4-trichlorobenzene
 Concen: 0.287 ug/L
 RT: 13.51 min Scan# 3837
 Delta R.T. 0.01 min
 Lab File: VU027897.D
 Acq: 01 Nov 2018 12:24

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
180	100		
182	108.6	77.8	116.6
145	28.4	22.9	34.3

Manual Integrations
 APPROVED

MMDadoda
 11/5/2018 4:10:24 PM

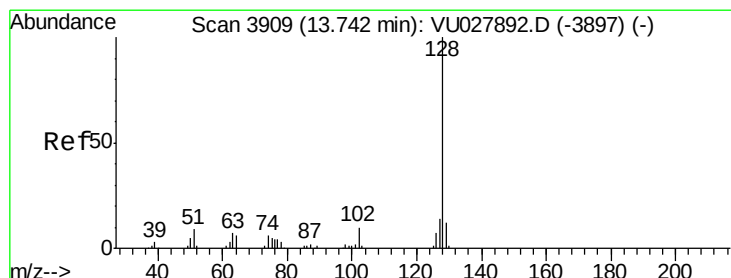
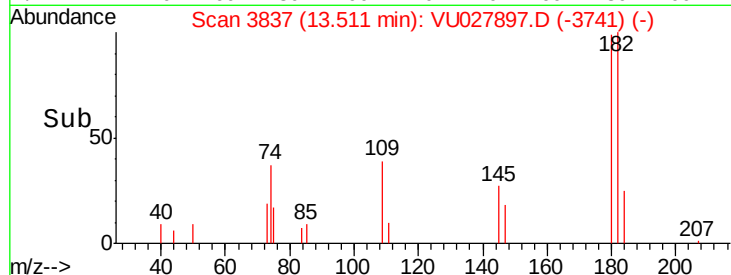
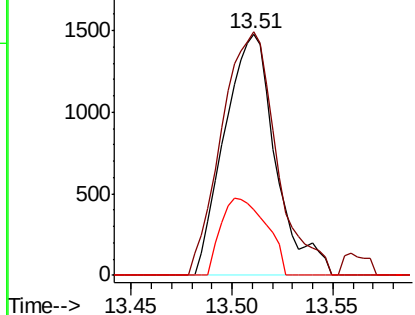


Abundance

Ion 179.90 (179.60 to 180.60): V

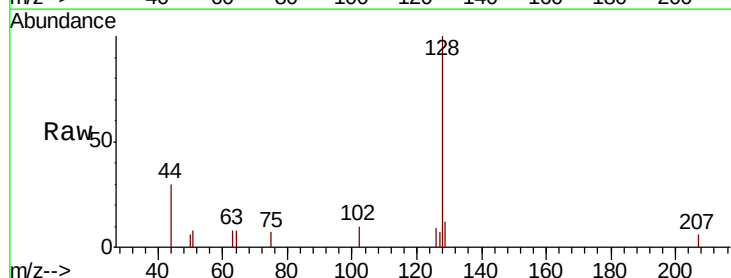
Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V



#69
 Naphthalene
 Concen: 0.267 ug/L
 RT: 13.75 min Scan# 3912
 Delta R.T. 0.01 min
 Lab File: VU027897.D
 Acq: 01 Nov 2018 12:24

Tgt Ion	Ratio	Lower	Upper
128	100		
129	7.7	8.6	12.8#
127	3.6	10.5	15.7#

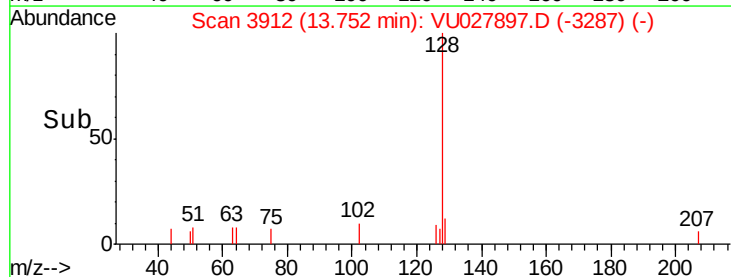
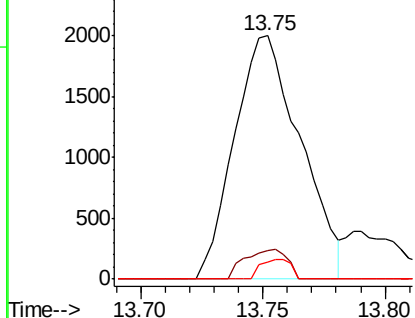


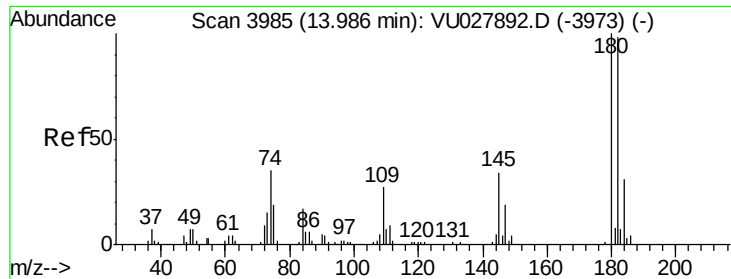
Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#70
 1,2,3-Trichlorobenzene
 Concen: 0.314 ug/L
 RT: 13.99 min Scan# 3986
 Delta R.T. 0.00 min
 Lab File: VU027897.D
 Acq: 01 Nov 2018 12:24

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
180	100		
182	90.9	79.4	119.0
145	23.0	25.4	38.0

Manual Integrations
 APPROVED

MMDadoda
 11/5/2018 4:10:24 PM

